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Course Outcomes

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Course Outcomes

Bachelor of Technology in Computer Science & Engineering

Program Name: **Engineering**

Course Name **Engineering Physics**

Course Code **PH3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Understand special theory of realtivity (STR), concepts linked with STR and radiation laws.	2	Emp
CO2	Students should be able to Understand interference, diffraction and able to connect it to a few engineering applications.	2	S
CO3	Students should be able to Explain the phenomena of polarization in electromagnetic waves and their production, Detection and analysis. They will also understand the operation and working principle of laser.	2	S
CO4	Students should be able to Understand electromagnetic theory using maxwells equations, and its uses in various engineering application. They will also understand the difference between dia, para and ferromagnetic materials.	2	Emp
CO5	Students should be able to Explain fundamentals of quantum mechanics and apply it to problems on bound states.	1	Emp

Course Name **Fundamentals of Mechanical and Mechatronics Engineering**

Course Code **ME3103**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students should be able to Understand application of the laws of thermodynamics to wide range of systems and aware about the basics of thermal engineering applications in IC engines and its working.	2	S
CO2	Students should be able toKnow and apply the types of forces and concepts used to analyze force mechanisms	2	Emp
CO3	Students should be able to Analyze and understand the Stress-strain diagrams and use of material.	2	S

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CO4	Students should be able toUnderstand the various machining processes	2	Emp
CO5	Students should be able to Gain knowledge on the various engineering materials and their properties.	1	Emp

Course Name **Engineering Physics Lab**
Course Code **PH3140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students should be able to Understand the process of performing the experiments on wavelength and focal length practically.	2	Emp
CO2	Students should be able to Verify the theoretical calculations with observed results in practical experiments.	2	Emp
CO3	Students should be able to Enhance the skills of using apparatus for verification of different laws.	2	S

Course Name **Mathematics I**
Course Code **MA3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Learn the basic principles of multi-variable calculus with their proofs. They should be able to classify partial differential equations and transform them into canonical form. They will also understand how to extract information from partial derivative models in order to interpret reality.	2	Emp
CO2	Students should be able to Understand and learn how to find the area and volume of any region and solid body respectively by integral and also find the moments of inertia for a thin plate in plane.	2	Emp
CO3	Students should be able to Understand theorems related to directional derivative of gradient and reproduce its proof. They should be able to Explain the concept of a vector integration in a plane and in space.	2	S
CO4	Know basic application problems described by second order linear differential equations with constant coefficients. They should be also able to understand and solve the applications associated with Laplace Transform.	2	S

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CO5	Students should be able to Solve the linear equations using matrix properties and Determine characteristic equation, eigen values, eigenvectors and diagonalizable of a matrix.	1	Emp

Course Name **Basics of Computer and C Programming**
Course Code **CS3103**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Approach the programming tasks using techniques learned in Theory and write pseudo-codes based on the requirements of the problem.	2	None
CO2	Students should be able to Use the comparisons and limitations of the various programming constructs and choose the right one for the task in hand.	2	S
CO3	Students should be able to Write the program based on numerical techniques learned and able to edit, compile,debug, correct, recompile and run it.	2	S
CO4	Students should be able to Develops the knowledge of different software on different Operating System Platform such as Linux/Windows (Open Source and Licensed) with understanding of different IDE	2	Emp
CO5	Students should be able to Makes students gain a broad perspective about the uses of computers in engineering industry	1	Emp

Course Name **Basics of Computer and C Programming Lab**
Course Code **CS3140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Approach the programming tasks using techniques learned in Theory and write pseudo-codes based on the requirements of the problem.	2	Emp
CO2	Students should be able to Use the comparisons and limitations of the various programming constructs and choose the right one for the task in hand.	2	S
CO3	Students should be able to Write the program based on numerical techniques learned and able to edit, compile, debug, correct, recompile and run it.	2	Emp

Course Name **Disaster Preparedness & Management**
Course Code **CE3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the basic concepts of disasters and its relationships with development.	2	Em
CO2	Understand the approaches of Disaster Risk Reduction (DRR) and the relationship between vulnerability, disasters, disaster prevention and risk reduction.	2	S
CO3	Understand the Medical and Psycho-Social Response to Disasters.	2	Em
CO4	Prevent and control Public Health consequences of Disasters.	2	Em
CO5	Awareness of Disaster Risk Management institutional processes in India.	2	Em

Course Name **Programming with C for Problem Solving**
Course Code **CS3111**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Approach the programming tasks using techniques learned in Theory and write pseudo-codesbased on the requirements of the problem.	2	None
CO2	Students should be able to Use the comparisons and limitations of the various programming constructs andchoose the right one for the task in hand.	2	S
CO3	Students should be able to Write the program based on numerical techniques learned and able to edit, compile, debug, correct, recompile and run it.	2	S
CO4	Students should be able to Develops the knowledge of different software on different Operating System Platform such as Linux/Windows (Open Source and Licensed) with understanding of different IDE	2	Emp
CO5	Students should be able to Makes students gain a broadperspective about the uses of computers in engineering industry	1	Emp

Course Name **Programming with C for Problem Solving Lab**
Course Code **CS3149**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to Approach the programming tasks using techniques learned in Theory and write pseudo-codesbased on the requirements of the	2	Emp
CO2	Students should be able to Use the comparisons and limitations of the various programming constructs and choose the right one for the task in hand.	2	S
CO3	Students should be able to Write the program based on numerical techniques learned and able to edit, compile, debug, correct, recompile and run it.	2	Emp

Course Name **Digital Electronics and Logic Design**
Course Code **CS3112**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The Students should be able to Learn the Fundamental of Digital Electronics like number systems, inter conversion and binary codes.	2	Emp
CO2	The Students should be able to Understand Boolean algebra, k-map minimization, logic gates and NAND NOR implementation.	2	Emp
CO3	The Students should be able to Understand, analyze and design various combinational circuits.	2	Emp
CO4	The Students should be able to Understand sequential circuits, analyse and design flip flops and counters.	2	S
CO5	The Students should be able to Identify basic requirements for a design of memory devices	1	Emp

Course Name **Digital Electronics and Logic Design Lab**
Course Code **CS3143**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Realize truth tables of different logic gates like OR,AND,NOT AND XOR. They will also learn Functions using universal gates.	2	Emp
CO2	Students should be able to Design and implement combinational circuits like half adder/full adder, half subtractor/full subtractor, code converters, comparators, MUX/DEMUX	2	S
CO3	Students should be able to Design and implement sequential circuits like flip-flops, counters and shift registers	2	Emp

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Course Name **English for Engineers I**
Course Code **EG3105**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Learn the fundamentals of communication process used within the organization.	2	Emp
CO2	Students should be able to Learn about the different forms of Business Communication.	2	Emp
CO3	Students should be able to Learn about the different forms of Business Communication.	2	S
CO4	Students should be able to Learn presentation techniques and soft skills.	2	Ent
CO5	Students should be able to Understand Value-based Text Readings.	1	Emp

Course Name **Engineering Mathematics I**
Course Code **MA3105**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Learn the basic principles of multi-variable calculus with their proofs. They should be able to classify partial differential equations and transform them into canonical form. They will also understand how to extract information from partial derivative models in order to interpret reality.	2	Emp
CO2	Students should be able to Understand and learn how to find the area and volume of any region and solid body respectively by integral and also find the moments of inertia for a thin plate in plane.	2	Emp
CO3	Students should be able to Understand theorems related to directional derivative of gradient and reproduce its proof. They should be able to Explain the concept of a vector integration in a plane and in space.	2	S
CO4	Know basic application problems described by second order linear differential equations with constant coefficients. They should be also able to understand and solve the applications associated with Laplace Transform.	2	S
CO5	Students should be able to Solve the linear equations using matrix properties and Determine characteristic equation, eigen values, eigenvectors and diagonalizable of a matrix.	1	Emp

Course Name **Graph Theory & Probability**
Course Code **CS3203**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	knowthe basics of graph along with the definitions of related terminologies.	2	S
CO2	knowthe concepts of trees along with various theorems and related algorithms.	2	Em
CO3	Know the concepts of planarity in graphs along with related algorithms.	2	S
CO4	know the various graph matrices and ways to find out the rank of the matrices.	2	En
CO5	know the concepts of combinatorics like the counting theory related to permutation and combination	1	Em

Course Name **Advance C Programming**
Course Code **CS3206**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Have deep knowledge about pointers in a programming language.	2	None
CO2	Provide functionality of array and pointers in a programming language	2	Em
CO3	Implement pointers with arrays and functions.	2	S
CO4	Make header and C library file.	2	Em
CO5	System API in a programming language.	1	None

Course Name **HTML5 & CSS**
Course Code **CS3204**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Know about the History of WWW, and evolution of HTML. They also get the knowledge about the different versions of HTML and why we use HTML5. Difference between the HTML4 and HTML5 and the new features of the HTML5. Able to understand about browser support and backward compatibility	2	S

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CO2	Understand about creation of DOM, doctype, Character encoding. They will gain the knowledge of the tags like script tag, Link tag etc. and also about deprecated elements. Understand about HTML5 documents (section, article, aside, header, footer, nav, dialog, and figure) and also about Web forms in detail.	2	Em
CO3	the knowledge of the History of CSS, Versions of CSS. able to know the difference between CSS and CSS3. They will also know what's new in CSS3, types of CSS3, and how to use it in HTML document?	2	S
CO4	Gain the knowledge of Selectors, Classes and Effects. Also gain the knowledge of texteffects,color,gradients,backgroundimages,masks,border, b oxeffects, animations ,transitions and transforms	2	Em
CO5	Introduction to MediataginHTML5,Geo-locationandWebHosting. able to understand about Embedding Audio &Video in Html file ,Google map and web hosting.	1	Em

Course Name **Advance C Programming Lab**
Course Code **CS3242**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Apply advanced concepts of the C programming language to create advanced C applications.	2	Em
CO2	Understand Function and Double Pointers, Recursion, Bit Manipulation, Macros.	2	S
CO3	Write high quality C code, to make yourself more marketable for higher level programming positions and be apply for real-time/embedded programming positions.	2	S

Course Name **HTML5 and CSS Lab**
Course Code **CS3204**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Design static web pages for home page that includes hyperlinks for registration page, login page and forgot password pages. Use form elements to create required web pages for the applications considered	2	Em

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CO2	Design Home page that comprises of 3 Frames. Top frame consists of Logo and title of the web page. Left frame comprises of links to different web pages and Right frame used to display the content of web pages	2	S
CO3	Left frame has links to Login page, Registration page, Contact us etc…	2	Em

Course Name **Indian Knowledge System**
Course Code **HU3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will be able to understand the Indian Knowledge System such as historical development, sources and scope.	2	S
CO2	The students will be able to understand the vocabulary system of Indian knowledge system.	2	S
CO3	The students will be able to understand and apply the philosophical foundations and methods of IKS.	3	N
CO4	The students will be able to execute the case studies based on the Indian knowledge system.	3	N
CO5	The students will be able to understand the influence of Indian Knowledge System on world.	2	S

Course Name **Web and Digital Analytics**
Course Code **CS3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the basic concepts of HTML	2	None
CO2	Understand about HTML 5 and the new tags introduced inHTML5	2	Em
CO3	Understand and apply the CSS in HTML document	2	S
CO4	Understand the concept of Blog and Google web master tool.	2	Em
CO5	Understand about Google analytics and certification available on google analytics.	1	None

Course Name **Environmental Studies**
Course Code **CY3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to Correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	2	Em
CO2	Students should be able to Understand the solutions related to environmental problems related with the renewable & non-renewable resources.	2	S
CO3	Students should be able to Understand the importance of ecosystem and biodiversity and the method of conservation of biological diversity.	2	S
CO4	Students should be able to Understand different components of the environment and their function and the effects pollution on environment and should be able to understand the concept of sustainable development.	2	En
CO5	Students should be able to Correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	1	None

Course Name **Human Values and Ethics**
Course Code **PS3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Understand the significance of value inputs in a classroom, distinguish between values and skills, understand the need, basic guidelines, content and process of value education, explore the meaning of happiness and prosperity and do a correct appraisal of the current scenario in the society.	2	S
CO2	Students should be able to Distinguish between the Self and the Body, understand the meaning of Harmony in the Self the Co-existence of Self and Body.	2	Em
CO3	Students should be able to Understand the value of harmonious relationship based on trust, respect and other naturally acceptable feelings in human-human relationships and explore their role in ensuring a harmonious society.	2	S
CO4	Students should be able to Understand the harmony in nature and existence, and work out their mutually fulfilling participation in the nature.	2	Em

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CO5	Students should be able to Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.	1	Em

Course Name **Web and Digital Analytics Lab**
Course Code **CS3244**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the basics of of HTML5 and CSS.	2	Em
CO2	Implement dynamic web pages using HTML5 and CSS.	2	S
CO3	Know the use of webmaster tool and the concept of Google analytics.	2	Em

Course Name **Foundation to AI, Data Science, Ethics and Foundation of Data Analysis**
Course Code **CS3223**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	overview of artificial intelligence (AI) principles and approaches	2	Emp
CO2	develop a basic understanding of the building blocks of AI as presented in terms of intelligent agents: Search, Knowledge representation, inference, logic, and learning.	2	S
CO3	understand concept of knowledge representation and predicate logic and transform the real life information in different representation.	2	Emp
CO4	understand machine learning concepts and range of problems that can be handled by machine learning	2	Emp
CO5	apply the machine learning concepts in real life problems.	1	None

Course Name **Data Analysis using Python, Numpy, Pandas, Matplotlib, and Seaborn**
Course Code **CS3224**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Installing Python, Anaconda, Jupyter Notebook, Spyder, Introduction to Python, Components, Versions and Distributions, Difference between Python 2 and Python 3, Compiler vs Interpreter, Statically vs dynamically typed languages	2	Emp
CO2	Understand about Python REPL, variables, control structures, functions, objects, First-class functions, Immutable data, Strict and non-strict evaluation, Recursion instead of an explicit loop state, Functions, Iterators, and Generators, Writing pure functions, Functions as first-class objects, Using strings, tuples and named tuples	2	Emp
CO3	get the knowledge of Using lists, dicts, and sets, The Itertools Module, Best Practices, Clean coding, Reading data files into Python, manipulating rows and columns in files, writing files, Introduction to python libraries	2	Emp
CO4	Gain the knowledge of Data validation and matching, Methods for detecting outliers, Outlier treatment, Creating derived variables and feature engineering, Basic exploratory data analysis	2	Ent
CO5	understand the Curve fitting	1	None

Course Name **Data Science Foundation**
Course Code **CS3208**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students are expected to learn different concepts needed for the proper functioning of a data science.	2	S
CO2	The students are expected to learn different types of applications, the importance of data science and features of the same.	2	Emp
CO3	The students are expected to develop simple data science using App inventor	2	S
CO4	The students are expected to learn statistical analysis of data.	2	Ent
CO5	The students are expected to learn to build and assess data-based models.	1	Emp

Course Name **English for Engineers II**
Course Code **EG3209**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The objective of this course is to introduce students to the theory, fundamentals and tools of communication.	2	Emp
CO2	To help the students become the independent users of English language.	2	Emp
CO3	To develop in them vital communication skills which are integral to their personal, social and professional interactions.	2	S
CO4	The syllabus shall address the issues relating to the Language of communication.	2	S
CO5	Students will become proficient in professional communication such as interviews, group discussions, office environments, important reading skills as well as writing skills such as report writing, note taking etc.	1	Emp

Course Name **Computer Fundamentals and Organization**
Course Code **CS3209**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understanding the concept of input and output devices of Computers	2	S
CO2	Learn the functional units and classify types of computers, how they process information and how individual computers interact with other computing systems and devices.	2	Emp
CO3	Understand an operating system and its working, and solve common problems related to operating systems	2	S
CO4	Learn basic word processing, Spreadsheet and Presentation Graphics Software skills.	2	Ent
CO5	Study to use the Internet safely, legally, and responsibly	1	Emp

Course Name **Foundation Course on Mobile Application-CAP I**
Course Code **CS3210**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be able to demonstrate their understanding of the fundamentals of Android operating systems	2	S
CO2	Students will be able to demonstrate their skills of using Android software development tools	2	Emp
CO3	Students will be able to demonstrate their ability to develop software with reasonable complexity on mobile platform	2	S
CO4	Students will be able to demonstrate their ability to deploy software to mobile devices	2	Ent
CO5	Students will be able to demonstrate their ability to debug programs running on mobile	1	Emp

Course Name **Data Structure and Programming**
Course Code **CS3301**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The Students should be able to Understand the concept of Dynamic memory management, data types, algorithms, ADT,pointer, c programming, iteration method, efficiency of recursion	2	Emp
CO2	The Students should be able to Understand the concepts of stack ,queue , linked list and implementation of insertion and deletion operation	2	Emp
CO3	The Students should be able to Study about different types of tree, and how it will implement	2	Emp
CO4	The Students should be able to Implement the different type of sorting searching algorithm	2	Emp
CO5	The Students should be able to Implement the different types of graphs and how it will traverse using less cost	1	Emp

Course Name **Digital Electronics**
Course Code **EC3306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The Students should be able to Learn the Fundamental of Digital Electronics like number systems, inter conversion and binary codes.	2	Emp
CO2	The Students should be able to Understand Boolean algebra, k-map minimization, logic gates and NAND NOR implementation.	2	Emp
CO3	The Students should be able to Understand, analyze and design various combinational circuits.	2	Emp

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CO4	The Students should be able to Understand sequential circuits, analyse and design flip flops and counters.	2	S
CO5	The Students should be able to Identify basic requirements for a design of memory devices	1	Emp

Course Name **Data Structure Programming Lab**
Course Code **CS3340**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The Students should be able to Know about Database Management System, a description of the Database Management structure, a Database, basic foundational terms of Database, Understand the applications of Databases, Explain & use design principles for logical design of databases, including the E -R method and normalization approach.	2	Emp
CO2	The Students should be able to Utilize the knowledge of basics of SQL and construct queries using SQL, Use commercial relational database system (Oracle) by writing Queries using SQL, Apply SQL commands to destroy and alter tables and views, Write queries in relational algebra using a collection of operators, Use their knowledge of SQL query to write nested and correlated queries, Apply aggregate operators to write SQL queries that are not expressible in relational algebra.	2	Emp
CO3	The Students should be able to Apply normalization for the development of application software's. Enter or remove data from Forms, Demonstrate to modify Forms,	2	Emp
CO4	The Students should be able to Know about Transaction system, Testing of serializability, Serializability of schedules, conflict & view serializable schedule, deadlock handling techniques.	2	Emp
CO5	The Students should be able to Know about Concurrency control and locking Techniques for concurrency control with types of concurrency control techniques, Time stamping protocols for concurrency control, validation based protocol, multiple granularity, Multi version schemes, Recovery with concurrent transaction.	1	Emp

Course Name **Data Base Management System**
Course Code **CS3305**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The Students should be able to Know about Database Management System, a description of the Database Management structure, a Database, basic foundational terms of Database, Understand the applications of Databases, Explain & use design principles for logical design of databases, including the E -R method and normalization approach.	2	Emp
CO2	The Students should be able to Utilize the knowledge of basics of SQL and construct queries using SQL, Use commercial relational database system (Oracle) by writing Queries using SQL, Apply SQL commands to destroy and alter tables and views, Write queries in relational algebra using a collection of operators, Use their knowledge of SQL query to write nested and correlated queries, Apply aggregate operators to write SQL queries that are not expressible in relational algebra.	2	Emp
CO3	The Students should be able to Apply normalization for the development of application software's. Enter or remove data from Forms, Demonstrate to modify Forms,	2	Emp
CO4	The Students should be able to Know about Transaction system, Testing of serializability, Serializability of schedules, conflict & view serializable schedule, deadlock handling techniques.	2	Emp
CO5	The Students should be able to Know about Concurrency control and locking Techniques for concurrency control with types of concurrency control techniques, Time stamping protocols for concurrency control, validation based protocol, multiple granularity, Multi version schemes, Recovery with concurrent transaction.	1	Emp

Course Name **Data Structure Programming Lab**
Course Code **CS3340**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The Students should be able to Understand the concept of Dynamic memory management, data types, algorithms,ADT,pointer, c programming, iteration method, efficiency of recursion	2	Emp

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CO2	The Students should be able to Understand the concepts of stack ,queue , linked list and implementation of insertion anddeletion operation	2	Emp
CO3	The Students should be able to Understand the concept of Dynamic memory management, data types, algorithms, ADT,pointer, c programming, iteration method, efficiency of recursion	2	Emp

Course Name **Digital Electronics Lab**
Course Code **EC3341**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Realize truth tables of different logic gates like OR,AND,NOT AND XOR. They will also learn Functions using universal gates.	2	Emp
CO2	Students should be able to Design and implement combinational circuits like half adder/full adder, half subtractor/full subtractor, code converters, comparators, MUX/DEMUX	2	Emp
CO3	Students should be able to Design and implement sequential circuits like flip-flops, counters and shift registers	2	Emp
CO4	The Students should be able to Know about Transaction system, Testing of serializability, Serializability of schedules, conflict & view serializable schedule, deadlock handling techniques.	2	Emp
CO5	The Students should be able to Know about Concurrency control and locking Techniques for concurrency control with types of concurrency control techniques, Time stamping protocols for concurrency control, validation based protocol, multiple granularity, Multi version schemes, Recovery with concurrent transaction.	1	Emp

Course Name **Data Base Management System**
Course Code **CS3305**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Realize truth tables of different logic gates like OR,AND,NOT AND XOR. They will also learn Functions using universal gates.	2	Emp

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CO2	Students should be able to Design and implement combinational circuits like half adder/full adder, half subtractor/full subtractor, code converters, comparators, MUX/DEMUX	2	Emp
CO3	Students should be able to Design and implement sequential circuits like flip-flops, counters and shift registers	2	Emp

Course Name **Oracle/SQL Server Lab**
Course Code **CS3342**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Write and execute DDL commands	2	Emp
CO2	Students should be able to Write and execute DML command	2	Emp
CO3	Students should be able to Write and execute DCL command	2	Emp

Course Name **United Nations Development Programme**
Course Code **HU3202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about the Structure, Mission, Vision and Goals of UNDP	2	S
CO2	Equip the students with the knowledge of sustainable livelihoods for inclusive economic growth.	2	S
CO3	Students will learn and explore about the Human Development index to promote well being at all ages.	2	S
CO4	To impart better education on SDGs goals focusing on Gender Equality and Provide Access to Justice to All and Build Effective.	3	N
CO5	Students will develop knowledge regarding environment sustainability.	3	N

Course Name **Discrete Design Structure**
Course Code **CS3307**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to Understand propositions and then would be able to find out the validity of the argument.	2	None
CO2	Students should be able to understand the concepts of set along with proofs to prove equality in sets. Various operations on sets, Principle of inclusion and exclusion, and various properties of Relation.	2	S
CO3	Students should be able to Get complete knowledge of function and mapping. Types of functions	2	Emp
CO4	Students should be able to Understand the concepts of Group, Ring and Fields. Various related properties. They will also learn Lattice and types of lattice.	2	Emp
CO5	Students should be able to Solve the problems of Permutation, Probability and Combination. They will learn the concepts of counting theory along with recurrence relation and generating functions.	1	Emp

Course Name **Linux and Open Source**
Course Code **CS3304**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The Students should be able to Know about the Open Source, Free Software, Free Software vs. Open Source software, Public Domain Software, FOSS does not mean no cost. History: BSD, The Free Software Foundation and the GNU Project.	2	S
CO2	The Students should be able to Understand about Open Source History, Initiatives, Principle and methodologies. Philosophy : Software Freedom, Open Source Development Model Licenses and Patents: What Is A License, Important FOSS Licenses (Apache,BSD,GPL, LGPL), copyrights and copylefts, Patents Economics of FOSS : Zero Marginal Cost, Income-generation opportunities, Problems with traditional commercial software, Internationalization	2	Emp
CO3	The Students should be able to Get the knowledge of the Linux – The Operating System, Open Source Software, GNU, GNU Public License, Advantages of Open Source Software, Difference between Windows and Linux.	2	Emp
CO4	The Students should be able to Gain the knowledge of Installing Linux – Hardware and Environmental Considerations, Server Design, Dual-Booting Issues, Methods of Installation, Installing Linux, Installing RedhatServer,Linux/Unix Commands,File Permissions in Linux/Unix	2	S

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CO5	The Students should be able to Understand shell and Kernel programming: Why shell programming? Creating a script, Variables, Shell commands and control structures, Kernel Basics, General kernel responsibilities, Kernel organization, Kernel modules	1	Emp

Course Name **Linux and Open Source Lab**
Course Code **CS3343**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Understand the different kind of linux command and how to use these command in linux operating system	2	Emp
CO2	Students should be able to Give the permission in single file to user , to group ,to admin and students can implement it on server site as well as in different kind of website designing	2	S
CO3	Students should be able to Differentiate different kind of operating system and importance of every operating system	2	Emp

Course Name **Probabilistic Modelling and Reasoning with Python**
Course Code **CS3423**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	the students are expected to learn- Basics of Statistics and Probability distributions	2	Emp
CO2	the students are expected to learn-Sampling theory and Theory of Estimation	2	Emp
CO3	the students are expected to learn-Various tests of Hypothesis and Significance, Correlation and Regression and fitting of different types of curves.	2	Emp

Course Name **R Programming for Data Science and Data Analysis**
Course Code **CS3424**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	The students are expected to learn-Open Source platform	2	Emp
CO2	The students are expected to learn-Machine Learning Operations and Exemplary support for data wrangling	2	Emp
CO3	The students are expected to learn-Quality plotting and graphing & Statistics	2	S

Course Name **Basics of C++ Programming**
Course Code **CS3351**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student should be able to understand the concept of Data types, Variables, Constant, Operators and Enums, Decision making, Loop control and Control flow.	2	Emp
CO2	The student should be able to understand the concept of Array, String, Function, String, Recursion, Pointer, Structure, Union and File input/output.	2	Ent
CO3	The student should be able to understand the concept of Dynamic memory allocation and Preprocessor	2	S
CO4	The student should be able to understand the concept of Operator overloading, Initialization and Assignment, Storage Management, Inheritance and Polymorphism.	2	Emp
CO5	The student should be able to understand the concept of file and its handling	3	Emp

Course Name **Basics of Networking and Trusted Operating Systems**
Course Code **CS3352**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student should be able to understand the concept of Process Management and Synchronization Memory and I/O Management.	2	Emp
CO2	The student should be able to understand the concept of Relational Algebra and SQL.	2	Ent

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CO3	The student should be able to understand the concept of Network Devices and Routing Algorithms.	2	S
CO4	The student should be able to understand the concept of Linux Operating System	2	Emp
CO5	Students should be able to understand about how to work with Distributed System	3	Emp

Course Name **Statistical Inference**
Course Code **CS3309**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Implement the concepts of inferential statistics in real world scenarios.	3	None
CO2	They will be able to apply hypothesis testing	3	S
CO3	Implement various statistical tools to test the homogeneity and independence.	3	Emp
CO4	Student will able to understand the Testing of hypothesis.	2	Emp
CO5	Student will able to analyze test for equality of variances.	2	Emp

Course Name **Python Programming**
Course Code **CS3310**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the core programming concepts of Python Programming Language.	2	S
CO2	Apply the Looping and condition statements in Python Programming Language	2	Emp
CO3	Analyze the different options in Data Management in Python Programming Language.	2	Emp
CO4	Evaluate the importance of data transformation and its need in Python Programming Language	2	S
CO5	Develop elementary to advanced statistical methods in Python Programming environment.	1	Emp

Course Name **Python Programming**
Course Code **CS3310**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Understand the core programming concepts of Python Programming Language.	2	S
CO2	Apply the Looping and condition statements in Python Programming Language	2	Emp
CO3	Analyze the different options in Data Management in Python Programming Language.	2	Emp
CO4	Evaluate the importance of data transformation and its need in Python Programming Language	2	S
CO5	Develop elementary to advanced statistical methods in Python Programming environment.	1	Emp

Course Name **Beginner Level -CTP (Data Science)**
Course Code **CS3311**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The Students should be able to Understand the concept of Dynamic memory management, data types, algorithms, ADT,pointer, c programming, iteration method, efficiency of recursion	2	Emp
CO2	The Students should be able to Understand the concepts of stack ,queue , linked list and implementation of insertion and deletion operation	2	Emp
CO3	The Students should be able to Understand the concept of Dynamic memory management, data types, algorithms, ADT,pointer, c programming, iteration method, efficiency of recursion	2	Emp

Course Name **Beginner Level -CTP (Data Science) Lab**
Course Code **CS3348**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Use discrete and continuous probability distributions, including requirements, mean and variance, and making decisions	2	Emp
CO2	Identify the type of statistical situation to which different distributions can be applied	2	S
CO3	Describe the basic concepts of data science for python.	2	Emp

Course Name **Python Programming Lab**
Course Code **CS3347**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to write programs on given values of each expressions.	2	Emp
CO2	Students should be able to write and run program by using loop functions.	2	S
CO3	Students should be able to plot the scatter matrix and test the value for the given data.	2	Emp

Course Name **Introduction to UI/UX**
Course Code **CS3312**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	By the end of this course, the students can outline about human computer interaction.	2	None
CO2	Students can identify different types of models, design process and interaction styles for developing a good user interface.	2	S
CO3	The students also can list out the different designing tools for UX designers	2	Emp
CO4	Students should be able to Understand the concepts of Views and Layout tools. Various types of Javascript forms and Functions.	2	Emp
CO5	Students should be able to know the case studies by using technologies. Various types of errors, lists and preventions they can be known.	1	Emp

Course Name **Web Programming-CAP II**
Course Code **CS3313**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Design Basic web and responsive web app development.	2	S
CO2	List different Events and Event Handler methods, Access Controls	2	Emp
CO3	Apply Data storage Concepts and Google Map integration	2	Emp

Course Name **Web Programming- CAP II Lab**
Course Code **CS3349**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Develop web pages using HTML and Cascading Styles sheets	2	Emp
CO2	Develop a dynamic web pages using JavaScript	2	S
CO3	To develop an ability to design and implement static and	2	Emp

Course Name **Object Oriented Programming Language and Systems with Java**
Course Code **CS3403**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Understand the use of OOPs concepts.	2	Emp
CO2	Students should be able to Solve real world problems using OOP techniques	2	Emp
CO3	Students should be able to Develop and understand exception handling, multithreaded applications with synchronization.	2	Emp
CO4	Students should be able to Design GUI based applications	2	Emp
CO5	Students should be able to Understand the use of File I/O	1	Emp

Course Name **Theory of Automata and Formal Languages**
Course Code **CS3404**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Explain basic models of computation, Introduce concepts in automata theory and theory of computation.	2	Emp
CO2	Identify different formal language classes and their relationships, to design grammars and automata (recognizers) for different language classes	2	Emp

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CO3	Students should be able to Synthesize finite and pushdown automata with specific properties, Prove particular problems cannot be solved by finite or pushdown automata using the Pumping Lemma or the closure properties of regular and/or context-free languages	2	Emp
CO4	Students should be able to Design deterministic Turing machine for all inputs and all outputs, subdivide problem space based on input subdivision using constraints	2	Emp
CO5	Students should be able to Determine the decidability and intractability of computational problems, a fundamental understanding of core concepts relating to the theory of computation and computational models including decidability and intractability	1	Emp

Course Name **Object Oriented Programming Language and Systems with Java Lab**
Course Code **CS3440**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Understand about class & object, also able to describe constructor, & overload the Constructors with instantiating its object.	2	Emp
CO2	Students should be able to Understand about polymorphism using methods in JAVA amd also able to implement polymorphism.	2	S
CO3	Students should be able to Implement the concept of threading by extending Thread Class and Runnable Interface.	2	Emp

Course Name **Software Engineering**
Course Code **CS3401**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Appreciate the engineering nature of software development. Describe key activities in software development and the role of modeling.	2	Emp

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CO2	Students should be able to Learn how to capture software requirements and handle difficult situations in the course addresses elicitation, specification, and management of software system requirements	2	Emp
CO3	Students should be able to Explain key concepts in software development such as risk and quality; explain the basics of an object-oriented approach to software development. Describe a simple workflow for interacting with the published literature on software development.	2	S
CO4	Students should be able to Apply modern software testing processes in relation to software development and project management,Create test strategies and plans, design test cases, prioritize and execute them.	2	Emp
CO5	Students should be able to Study a body of knowledge relating to Software Engineering, Software reengineering, and maintenance; Understand the principles of large scale software systems, and the processes that are used to build them;	1	Emp

Course Name **Computer Network**
Course Code **CS3402**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Build an understanding of the fundamental concepts of computer networking. To master the concepts of protocols, network interfaces, and physical transmission media.	2	Emp
CO2	Students should be able to Have knowledge of terminology and concepts of the OSI reference model and the TCP/IP reference model. Study data link layer concepts, design issues, and responsibilities	2	Emp
CO3	Students should be able to Analyze, specify and design the topological and routing strategies for an IP based networking infrastructure	2	Emp
CO4	Students should be able to Study Transport layer services and protocols and gain knowledge about connection establishment and termination	2	Emp
CO5	Students should be able to Have a basic knowledge of the use of cryptography and network security	1	Emp

Course Name **Computer Network Lab**

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Course Code **CS3442**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Learn about basics of computer networking and IP addressing.	2	Emp
CO2	Students should be able to Analyse different simulation tools such as NS2	2	Emp
CO3	Students should be able to Learn about framing technique	2	Emp

Course Name **Case Tools and Testing Lab**
Course Code **CS3441**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Understand and identify various software testing problems, and solve these problems by designing and selecting software test models, criteria, strategies, and methods.	2	Emp
CO2	Students should be able to Apply software testing knowledge and engineering methods.	2	Emp
CO3	Students should be able to Improve software testing knowledge and engineering methods.	2	S

Course Name **Machine Learning and Pattern Recognition**
Course Code **CS3523**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student should be able to understand Basic Algorithms of Machine Learning	2	Emp
CO2	The student should be able to understand about Supervised and Unsupervised Learning	2	S
CO3	The student should be able to learn about Linear Regression, Classification, Tree, PCA, SVD, SVM, Resampling Methods and Optimization Techniques	2	S

Course Name **Machine Learning Practical with Python, Scikit-learn, Matplotlib, TensorFlow**
Course Code **CS3524**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Experiment with basic Algorithms of Machine Learning	3	Emp
CO2	Experiment with Supervised and Unsupervised Learning	3	Emp
CO3	Experiment with Linear Regression, Classification, Tree, PCA, SVD, SVM, Resampling Methods and Optimization Techniques.	3	S

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Course Name **Advanced Networking**
Course Code **CS3451**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student should be able to understand the Networking and Internet fundamentals.	2	Emp
CO2	The student should be able to implement the basic Networking commands.	2	Ent
CO3	The student should be able to implement the Advanced Networking	2	Emp

Course Name **Basis of Information Security**
Course Code **CS3452**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student should be able to understand the Basics of information security.	2	Emp
CO2	The student should be able to implement the Basics of information security.	2	Ent
CO3	The student should be able to understand the Access control of information security.	2	Emp

Course Name **Advanced Networking Lab**
Course Code **CS3445**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand the basic networking topology methods and their application	2	Emp
CO2	Student should be able to implement the wireless LANs and design access list to provide network security.	3	Emp

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CO3	Student should be able to troubleshoot the security policies in LANs and VLANs.	3	S

Course Name **Intermediate Level -CTP (Data Science)**
Course Code **CS3409**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Use NumPy to perform common data wrangling and computational tasks in Python.	2	Emp
CO2	Employ the concepts of Pandas to create and manipulate data structures like Series and Data Frames.	2	Ent
CO3	Describe exploratory data analysis and visualization concepts.	2	S

Course Name **Intermediate Level -CTP (Data Science) Lab**
Course Code **CS3447**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Use NumPy to perform common data wrangling and computational tasks in Python.	2	Emp
CO2	Employ the concepts of Pandas to create and manipulate data structures like Series and Data Frames.	2	Ent
CO3	Describe exploratory data analysis and visualization concepts.	2	S

Course Name **Android Application Development-CAP III**
Course Code **CS3410**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Explain Android development environment, Architecture and android components.	2	Emp
CO2	List and explain the different layouts, user interface elements.	2	Emp
CO3	Understand the android storage and data management techniques.	2	Emp

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Course Name **Android Application Development-CAP III Lab**
Course Code **CS3448**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Develop an android application using UI and Layouts	2	Emp
CO2	Create an android application using multiple activities	2	Emp
CO3	Create an android application implement intent methods	2	S

Course Name **Design and Analysis of Algorithm**
Course Code **CS3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Analyze the asymptotic performance of algorithms, Apply important algorithmic design paradigms and methods of analysis, Familiarizing students with specific algorithms for a number of important computational problems like sorting, searching.	2	Emp
CO2	Students should be able to Describe the divide-and- conquer paradigm and explain when an algorithmic design situation calls for it and differentiate with Greedy approach. Recite algorithms that employ this paradigm. Synthesize divide and-conquer algorithms. Derive and solve recurrences describing the performance of divide- and-conquer algorithms.	2	Ent
CO3	Students should be able to Incorporate the dynamic-programming paradigm and explain when an algorithmic design situation calls for it. Recite algorithms that employ this paradigm. Synthesize dynamic programming algorithms, and analyses them.	2	S
CO4	Students should be able to Explain the major graph algorithms and their analyses. Employ graphs to model engineering problems, when appropriate. Synthesize new graph algorithms and algorithms that employ graph computations as key components, and analyses them.	3	Emp
CO5	Students should be able to He provide understanding of classes of problems and define the class of problem as P, NP, NP Hard, NP Complete.	3	Emp

Course Name **Design and Analysis of Algorithm Lab**

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Course Code **CS3541**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Identify the problem given and design the algorithm using various algorithm design techniques.	2	Emp
CO2	Students should be able to Students can implement various algorithms in a high level language.	2	Ent
CO3	Students should be able to Student should be analyze the performance of various algorithms.	2	S

Course Name **Operating System**
Course Code **CS3501**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Understand basics of Operating System,Different types osOS,and importance of OS	2	Emp
CO2	Students should be able to Describe the working of process in detail , how cpu schedule and how dead lock occur and prevent from deadlock	2	Ent
CO3	Students should be able to Understand the concepts and implementation Memory management policies and virtual memory	2	S
CO4	Students should be able to Understand the working of an OS as a resource manager, file system manager, process manager, memory manager and I/O manager and methods used to implement the different parts of OS	3	Emp
CO5	Students should be able to Understand the working of file management how data is stored into memory and how it will transmit from one side to another in computer system	3	Emp

Course Name **Operating System**
Course Code **CS3501**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to Understand basics of Operating System,Different types osOS,and importance of OS	2	Emp
CO2	Students should be able to Describe the working of process in detail , how cpu schedule and how dead lock occur and prevent from deadlock	2	Ent
CO3	Students should be able to Understand the concepts and implementation Memory management policies andvirtual memory	2	S
CO4	Students should be able to Understand the working of an OS as a resource manager, file system manager, process manager, memory manager and I/O manager and methods used to implement the different parts of OS	3	Emp
CO5	Students should be able to Understand the working of file management how data is stored into memory and how it will transmit from one side to another incomputer system	3	Emp

Course Name **Web Technology**
Course Code **CS3502**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Understand basics of Operating System,Different types osOS,and importance of OS	2	Emp
CO2	Students should be able to Describe the working of process in detail , how cpu schedule and how dead lock occur and prevent from deadlock	2	Ent
CO3	Students should be able to Understand the concepts and implementation Memory management policies andvirtual memory	2	S
CO4	Students should be able to Understand the working of an OS as a resource manager, file system manager, process manager, memory manager and I/O manager and methods used to implement the different parts of OS	3	Emp
CO5	Students should be able to Understand the working of file management how data is stored into memory and how it will transmit from one side to another incomputer system	3	Emp

Course Name **Foundation of Cloud Computing**
Course Code **CS3505**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to Understand the use of Cloud Computing concepts	2	Emp
CO2	Students should be able to Solve real world application development problems using Google app engine, GKE.	2	Ent
CO3	Students should be able to Understand the need of Google cloud storage options.	2	S
CO4	Students should be able to Understand the use of networking and management tools	3	Emp
CO5	Students should be able to Manage machine learning applications over the cloud.	3	Emp

Course Name **Neural Networks and Deep Learning (Vision and NLP)**
Course Code **CS3623**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students are expected to learn-Neural Network, Feed Forward and Backpropagation	2	Emp
CO2	The students are expected to learn-TensorFlow and Keras	2	Emp..
CO3	The students are expected to learn-RNN, CNN, Autoencoders	2	S

Course Name **Deep Learning Practical with Python, TensorFlow and Keras**
Course Code **CS3624**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students are expected to learn-Experiment with Neural Network, Feed Forward and Backpropagation	2	Emp
CO2	The students are expected to learn-Experiment with TensorFlow and Keras	2	S
CO3	The students are expected to learn-Experiment with RNN, CNN, Autoencoders.	2	Emp..

Course Name **Linux and Virtualization**
Course Code **CS3551**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	student should be able to install linux by using virtual machines.	2	Emp
CO2	student should be able to backup of virtual machines.	2	Emp

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CO3	student should be able to create connection with putty.	3	S

Course Name **Cryptography**
Course Code **CS3552**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student should be able to understand the concept of Digital Signature	2	Emp
CO2	The student should be able to understand the concept of Data Integrity Algorithms	2	Emp
CO3	The student should be able to understand the concept of Public Key Infrastructure	2	S

Course Name **Advance of Information Security**
Course Code **CS3553**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student should be able to understand the concepts of information security	2	Emp
CO2	Students will able to understand and implement the various kind of algorithm for security	2	Ent
CO3	The student should be able to undersand the concepts of digital signature and get how to implement it on latest technology	2	Emp

Course Name **Advanced Level-CTP(Data Science)**
Course Code **CS3509**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Develop a deeper understanding of the linear regression model and its limitations.	2	Emp
CO2	Students should be able to Demonstrate the concepts of various classification techniques.	3	Ent
CO3	Students should be able to Differentiate between clustering and classification.	3	S

Course Name **R Programming**
Course Code **CS3510**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student should be able to Know the procedure to read and write different format of data set into R environment.	2	Emp
CO2	The student should be able to Understand the uniqueness in R programming with the help of apply function in R programming language.	2	Ent
CO3	The student should be able to Apply different options in I/O operations in R programming Language.	2	S
CO4	The student should be able to Know the interpretation of summary statistics and testing of hypothesis.	3	Emp
CO5	The student should be able to Know the built-in functions for graphs and non-parametric testing of hypothesis in R.	3	Emp

Course Name **R Programming**
Course Code **CS3510**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student should be able to Know the procedure to read and write different format of data set into R environment.	2	Emp
CO2	The student should be able to Understand the uniqueness in R programming with the help of apply function in R programming language.	2	Ent
CO3	The student should be able to Apply different options in I/O operations in R programming Language.	2	S
CO4	The student should be able to Know the interpretation of summary statistics and testing of hypothesis.	3	Emp
CO5	The student should be able to Know the built-in functions for graphs and non-parametric testing of hypothesis in R.	3	Emp

Course Name **R Programming**
Course Code **CS3510**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student should be able to Know the procedure to read and write different format of data set into R environment.	2	Emp

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CO2	The student should be able to Understand the uniqueness in R programming with the help of apply function in R programming language.	2	Ent
CO3	The student should be able to Apply different options in I/O operations in R programming Language.	2	S
CO4	The student should be able to Know the interpretation of summary statistics and testing of hypothesis.	3	Emp
CO5	The student should be able to Know the built-in functions for graphs and non-parametric testing of hypothesis in R.	3	Emp

Course Name **R Programming Lab**
Course Code **CS3548**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the basic concepts of R programming language.	2	Emp
CO2	Students should be able to understand the data structures in R programming language.	2	Ent
CO3	Students should be able to understand the important packages and functions in R programming language.	2	S

Course Name **Advanced Level-CTP(Data Science) Lab**
Course Code **CS3547**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Develop a deeper understanding of the linear regression model and its limitations.	2	Emp
CO2	Students should be able to Demonstrate the concepts of various classification techniques.	2	Ent
CO3	Students should be able to Differentiate between clustering and classification.	3	S

Course Name **Agile Practices**
Course Code **CS3511**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand fundamentals of Agile methodology.	2	Emp
CO2	Students should be able to Explain agile principles.	2	Ent
CO3	Students should be able to explain Code Structure	3	S

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Course Name **iOS Application Development - CAP IV**
Course Code **CS3512**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Gain knowledge of iOS Architecture and Xcode	2	S
CO2	Gain Knowledge on Objective-C concepts	2	Emp
CO3	Gain Knowledge on Swift programming	2	Emp
CO4	Understand MVC and its importance in iOS App development	2	Emp
CO5	Understand Files and SQLite to Store and Retrieve information	2	Emp

Course Name **iOS Application Development - CAP IV**
Course Code **CS3545**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Gain knowledge of iOS Architecture and Xcode	2	Emp
CO2	Gain Knowledge on Objective-C concepts	2	Ent
CO3	Gain Knowledge on Swift programming	3	S

Course Name **Project Based Learning using JAVA**
Course Code **CS3513**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the use of OOPs concepts.	2	**s**
CO2	Students should be able to solve real world problems using OOP techniques.	3	**Emp**
CO3	Students should be able to develop and understand exception handling, multithreaded applications with synchronization.	3	**Emp**
CO4	Students should be able to design GUI based applications	3	**Emp**

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CO5	Students should be able to understand the use of File I/O.	3	**Emp**

Course Name **Project Based Learning using JAVA Lab**
Course Code **CS3549**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to use Object Oriented Programming concepts for problem solving.	3	Emp
CO2	Students should be able to Apply JDBC to provide a program level interface for communicating with database using java programming	3	Emp
CO3	Students should be able to Apply the garbage collection for saving the resources automatically	3	Emp

Course Name **Compiler Design**
Course Code **CS3604**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Realize basics of compiler design and apply for real time applications, To develop an awareness of the function and complexity of modern compilers	2	Emp
CO2	Students should be able to Understand the different types of parsing techniques and should be in a position to solve the problem	2	Ent
CO3	Students should be able to Analyse the program and minimize the code which helps in reducing the no. of instructions in a program and also utilization of registers in an effective way.	2	S
CO4	Students should be able to Draw the flow graph for the intermediate codes,To apply the optimization techniques to have a better code for code generation	3	Emp
CO5	Students should be able to Apply the code generation algorithms to get the machine code for the optimized code, To represent the target code in any one of the code formats,To understand the machine dependent code	3	Emp

Course Name **Compiler Design Lab**
Course Code **CS3641**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Realize basics of compiler design and apply for real time applications, To develop an awareness of the function and complexity of modern compilers.	2	Emp
CO2	Students should be able to Analyse and implement the program and minimize the code which helps in reducing the no. of instructions in a program and also utilization of registers in an effective way.	2	Ent
CO3	Students should be able to Understand and implement the dif	2	S

Course Name **Technical VAP I**
Course Code **CS3642**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the concepts of HTML,CSS	2	Emp
CO2	Understand the concepts of python language	2	Ent
CO3	Understand the concepts of Machine learning	2	S
CO4	Understand the concepts of PHP language	3	Emp
CO5	Understand the concepts of C++ programming language	3	Emp

Course Name **Artificial Intelligence**
Course Code **CS3601**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Understand the concepts of artificial intelligence. also learn the various searching methods.	2	Emp
CO2	Student will understand the various types of knowledge representation techniques required in artificial intelligent machines	2	Ent
CO3	Student will Understand reasoning during the condition of uncertainty	2	S
CO4	Student will Learn about different types of learning methods	3	Emp
CO5	Student will Learn about the various methods of reducing the search path in a problem.	3	Emp

Course Name **Distributed Operating System**

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Course Code **CS3603**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Understand the use of DOS concepts, its architecture and various challenges and issues in DOS network	2	Emp
CO2	Students should be able to Understand the DOS processes, synchronization and communication	2	Ent
CO3	Students should be able to Develop and understand exception handling, multithreaded applications and recovery	2	S
CO4	Students should be able to Understand DFS implementation, page and object based distributed shared memory, replacement strategy and thrashing	3	Emp
CO5	Students should be able to Develop and understand the use access control techniques, and web applications of distributed web-based system	3	Emp

Course Name **Artificial Intelligence using Python Lab**
Course Code **CS3640**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Understand about the basic of AI programming languages	2	Emp
CO2	Students should be able to Understand the programming concepts of LISP	2	Ent
CO3	Students should be able to Understand the programming concepts of PROLOG	2	S

Course Name **Data Science - Tools and Techniques**
Course Code **CS3723**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students are expected to learn- Concepts of Hadoop and HDFS	2	Emp
CO2	The students are expected to learn- Concepts of MapReduce	2	Emp
CO3	The students are expected to learn- Big data tools Pig, Hive, Spark, Zookeeper, HBase	2	Emp

Course Name **Advanced Python Programming Lab**
Course Code **CS3648**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to implement different library functions	2	Emp
CO2	Student should be able to perform different programs for different libaries in Python	2	S
CO3	Student should be able to implement real problem based projects based on machine learning, deep learning etc.	2	S

Course Name **Operating System Lab**
Course Code **CS3649**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to identify basic components of operating system.	2	Emp
CO2	Students should be able to conceptualize synchronization amongst various components of a typical operating system.	2	S
CO3	Students should be able to understand and simulate activities of various operating system components.	2	Emp

Course Name **Digital Forensics Part-2**
Course Code **CS3652**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student should be able to understand the Windows Forensics.	2	Emp
CO2	The student should be able to understand the Live Forensics.	2	Ent
CO3	The student should be able to understand Password recovery techniques.	2	Emp

Course Name **Introduction to Risk Management and Cyber Laws**
Course Code **CS3653**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student should be able to understand the Introduction to Standards, frameworks and guidelines.	2	Emp
CO2	The student should be able to implement the Email offences and Investigation.	2	Ent
CO3	The student should be able to understand the Server log offences and Investigation	2	Emp

Course Name **Malware Analysis and Reverse Engineering I**
Course Code **CS3654**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student should be able to understand the Windows Internals - Part 1	2	Emp
CO2	The student should be able to implement the C/C++ from reverse engineering perspective.	3	Ent
CO3	The student should be able to implement the x86 Assembly language.	3	Emp

Course Name **Linux Administration Lab**
Course Code **CS3643**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student should be able to realize basics of compiler design and apply for real time applications, To develop an awareness of the function and complexity of modern compilers.	2	Emp
CO2	The student should be able to analyse and implement the program and minimize the code which helps in reducing the no. of instructions in a program and also utilization of registers in an effective way.	3	Emp
CO3	The student should be able to understand and implement the different types of parsing techniques and should be in a position to solve the problem	2	S

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Course Name **Data Visualization Techniques**
Course Code **CS3613**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the fundamental design principles and different types of data visualization.	2	Emp
CO2	Identify both positive and negative impacts of data-informed decision across a variety of domains.	2	Ent
CO3	Apply the fundamental concepts of data visualization to define a project in your field of study.	2	S
CO4	Practice the core principles using widely available tools (e.g. Tableau).	3	Emp
CO5	Demonstrate the best practice that presents your story in the process of creating data visualization	3	Emp

Course Name **Data Visualization Techniques Lab**
Course Code **CS3647**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the fundamental design principles and different types of data visualization.	2	Emp
CO2	Identify both positive and negative impacts of data-informed decision across a variety of domains.	2	Ent
CO3	Apply the fundamental concepts of data visualization to define a project in your field of study.	2	S

Course Name **Natural Language Processing using Python**
Course Code **CS3614**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Outline the basic concepts of natural language processing and its important terminologies	2	Emp
CO2	Analyse the key role of syntactic parsing and semantic analysis in natural language processing in unstructured data	4	Ent
CO3	Create language generation as a part of sentimental analysis	2	S
CO4	Create corpus for text analysis in natural language processing	3	Emp
CO5	Evaluate important statistical techniques used in natural language processing	3	Emp

Course Name **Server Side Scripting**
Course Code **CS3615**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To provide students with an understanding the concept of server side scripting and frameworks.	2	Emp
CO2	To teach students how to develop environment and concepts of various databases use for dynamic web application	2	Ent
CO3	Understand deployment with Docker	3	S

Course Name **Server Side Scripting**
Course Code **CS3615**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To provide students with an understanding the concept of server side scripting and frameworks.	2	Emp
CO2	To teach students how to develop environment and concepts of various databases use for dynamic web application	2	Ent
CO3	Understand deployment with Docker	3	S

Course Name **DevOps Overview**
Course Code **CS3616**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the basic concepts of DevOps	2	Emp
CO2	To understand the software development concepts	4	Ent
CO3	To understand the agile methodology involved in DevOps	2	S
CO4	To understand the application of DevOps and CI/CD.	3	Emp
CO5	To understand the culture, automation, measurement, sharing and configuration	3	Emp

Course Name **System Administration**
Course Code **CS3701**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To introduce the fundamentals of System Administration.	2	Emp
CO2	To demonstrate the Process of Managing User Accounts, File Management, Configuring Firewall Security	2	S
CO3	To comprehend and analyse the File System Management & Configuring TCP/IP Networking	2	S
CO4	To understand the Network Address Translation, Role of Network Information System with Backup & Recovery by a system administrator.	2	Ent
CO5	After the completion of the course, the students will gain knowledge about System Administration or Windows Administration.	1	Emp

Course Name **Technical VAP II**
Course Code **CS3742**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand Object oriented programming (Advanced C++,Java)	2	Emp
CO2	Understand Python with Machine learning	2	Emp
CO3	Understand Advanced Data structures	2	Emp
CO4	Understand Advanced Database Management System	2	Emp
CO5	Understand Trends in Web technology	1	Emp

Course Name **System Administration Lab**
Course Code **CS3740**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To explain the importance of Software installation concepts.	2	Emp
CO2	To Understand Multi-user basics, politics, policies and ethics techniques using programming.	2	Emp
CO3	To Identify and learn Automating Administrative Tasks.	2	Emp

Course Name **BIG Data and Business Intelligence**
Course Code **CS3702**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand big data technologies used in storage, analysis & data manipulation.	2	Emp
CO2	To understand the concept of BIG data in Business Intelligence.	2	S
CO3	To understand the basics of design and management of BI systems, Recognize the key concepts of Hadoop framework, map reduce.	2	S
CO4	To expose students to real market problems deriving solutions from business intelligence.	2	Emp
CO5	Explore and use the data warehousing wherever necessary, Manage practical BI systems.	1	Emp

Course Name **Optimization Techniques**
Course Code **CS3709**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Find the appropriate algorithm for allocation of resources to optimize the process of assignment.	2	Emp
CO2	Explain the theoretical workings of sequencing techniques for effective scheduling of jobs on machines.	2	S
CO3	Identify appropriate equipment replacement technique to be adopted to minimize maintenance cost by eliminating equipment break-down.	2	S
CO4	Apply the knowledge of game theory concepts to articulate real-world competitive situations to identify strategic decisions to counter the consequences.	2	Ent
CO5	Demonstrate the various selective inventory control models to analyse and optimize inventory systems.	1	Emp

Course Name **Optimization Techniques Lab**
Course Code **CS3732**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Find the appropriate algorithm for allocation of resources to optimize the process of assignment.	2	Emp

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CO2	Explain the theoretical workings of sequencing techniques for effective scheduling of jobs on machines.	2	S
CO3	Identify appropriate equipment replacement technique to be adopted to minimize maintenance cost by eliminating equipment break-down.	2	S

Course Name **NoSQL Database Technologies**

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Course Code **CS3710**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understanding NoSQL Databases, and its futures Limitations of Relational Databases, Comparing NoSQL with RDBMS	2	Emp
CO2	Understand Managing Different Data Types	2	S
CO3	Understand the Technical Evaluation, Choosing NoSQL, Search Features	2	S
CO4	Understanding about data storage and processing techniques.	2	Emp
CO5	Applying the various queries used in NoSQL databases.	3	Emp

Course Name **NoSQL Database Technologies Lab**
Course Code **CS3748**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understanding NoSQL Databases, and its futures Limitations of Relational Databases, Comparing NoSQL with RDBMS	2	Emp
CO2	Understand Managing Different Data Types	2	Emp
CO3	Understand the Technical Evaluation, Choosing NoSQL, Search Features	2	Emp

Course Name **Parallel Computing**
Course Code **CS3803**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to To understand parallel computing hardware and programming models	2	Emp
CO2	Student Will be enabled to be conversant with performance analysis and modeling of parallel programs.	2	Emp
CO3	Student will be able to Understand the logic to parallelize the programming task and operating system requirements to qualify in handling the parallelization	2	S
CO4	Student will be able to Describe different parallel architectures, inter-connect networks, programming models.	2	Emp

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CO5	Student will be able to Develop an efficient parallel algorithm to solve given problem.Analyze and measure performance of modern parallel computing systems.	1	Emp

Course Name **Computer Organization and Architecture**
Course Code **CS3801**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To recognize the developing trends in Cyber law	2	Emp
CO2	To understand legislation impacting cyberspace in the current situation.	2	Emp
CO3	To generate better awareness to battle the latest kinds of cybercrimes impacting all investors in the digital and mobile network.	2	S
CO4	To Make Learner Conversant With The Social And Intellectual Property Issues Emerging From 'Cyberspace	2	Emp
CO5	To Explore The Legal And Policy Developments In Various Countries To Regulate Cyberspace	1	Emp

Course Name **Cyber Laws and Security Policies**
Course Code **CS3804**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand basic structure and operation of a digital computer system.	2	Emp
CO2	To introduce the processor architectures, memory organization and mapping techniques to students.	2	S
CO3	To be able to analyze the design of arithmetic and logic unit and understanding of the fixed point and floating point arithmetic operations.	2	S
CO4	To give the students an elaborate idea about the different memory systems and buses.	2	Emp
CO5	To understand the hierarchical memory system, cache memories and virtual memory, I/O Communication	1	Emp

Course Name **Text Analytics**
Course Code **CS3809**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Introduction to text pre-processing, terminologies related with text processing, challenges of text pre-processing, tokenization, sentence segmentation	2	Emp
CO2	Explain the text analytics framework.	2	S
CO3	Analyze various sources of text data.	2	S
CO4	Measure machine learning model performance with appropriate metrics.	2	Emp
CO5	Interpret the results, gain insights, and recommend possible actions from analytics performed on text data.	1	Emp

Course Name **SOCIAL MEDIA ANALYTICS**
Course Code **CS3810**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the important terminologies and analytics techniques in social media analytics.	2	Emp
CO2	Analyse the twitter data and conclude the important finding and insights of the society thought on particular issues.	2	S
CO3	Analyse the facebook data and conclude the important finding and insights of the society thought on particular issues.	2	S
CO4	Analyse the Instagram profile and find out the interesting insights.	2	Emp
CO5	Analyse the GitHub profile and find out the latest trending article in GitHub.	1	Emp

Course Name **Dockers and Kubernetes**
Course Code **CS3813**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Develop Containerized applications and implement continuous integration using Docker, explaining different types of cloud deployment and service models.	2	Emp
CO2	Create own images and build the repository.	2	Emp
CO3	Utilize Docker Orchestration and Service discovery features.	2	S
CO4	Apply development tools, frameworks, platforms, libraries and packages to test hardware and software systems.	2	Emp
CO5	Evaluate the fundamentals of solution architecture to provision cloud infrastructure.	1	Emp

Course Name **Application Development Using React Native**

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Course Code **CS3814**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand React Native	2	Emp
CO2	Build SPA using ReactJS	2	Emp
CO3	Build Cross Platform Apps using React Native	2	S
CO4	Test React Native Apps in different Mobile OS	2	Emp
CO5	Understand how to test Native Apps	1	Emp

Course Name **Fault Tolerant Computing**
Course Code **CS3807**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The course will provide the students a background so that they can: understand techniques to model faults and know how to generate tests and evaluate effectiveness;	2	Emp
CO2	evaluate reliability of systems with permanent and temporary faults;	2	Emp
CO3	determine applicability of these forms of redundancy to enhance reliability: spatial, temporal, procedural;	2	S
CO4	assess the relation between software testing and residual defects and security vulnerabilities,	2	Emp
CO5	devise and analyse potential solutions for emerging issues.	1	Emp

Course Name **Virtual Reality and Systems**
Course Code **CS3806**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand Virtual Reality and Virtual Environments	2	Emp
CO2	Understand Hardware Technologies used for 3d User Interfaces	2	Emp
CO3	Understand Software Technologies used in VRS	2	S
CO4	Understand 3D Interaction Techniques	2	Emp
CO5	Understand various Advances In 3dDUser Interfaces	1	S

Course Name **Reinforcement Learning**
Course Code **CS3821**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Knowledge of basic and advanced reinforcement learning techniques.	2	Emp
CO2	Identification of suitable learning tasks to which these learning techniques can be applied.	2	Emp
CO3	Appreciation of some of the current limitations of reinforcement learning techniques.	2	S
CO4	Training agents and evaluating performance	2	Emp
CO5	Formulation of decision problems, set up and run computational experiments, evaluation of results from experiments.	1	Emp

Course Name **Cloud Computing Fundamentals**
Course Code **CS3802**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the fundamental principles of distributed computing.	2	Emp
CO2	Understand how the distributed computing environments known as Grids can be built from lower level services.	2	Emp
CO3	Understand the importance of virtualization in distributed computing and how this has enabled the development of Cloud Computing.	2	S
CO4	Understand the concept of Cloud Security.	2	Emp
CO5	Analyze the performance of Cloud Computing	1	S

Course Name **Artificial Neural Network**
Course Code **CS3811**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the importance of neural network system and its components	2	Emp
CO2	To understand the neural network learning and adaptation in data science	2	Emp
CO3	To understand the mechanism of single layer perceptron in neural network models	2	S
CO4	To understand the advantage of multilayer perceptron over single layer perceptron	2	Emp

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CO5	To understand broad application of neural networks in different field of businesses	1	S

Course Name **Software Project Management**
Course Code **CS3815**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand Project concepts and its Management	2	Emp
CO2	Explain how to do Cost Estimation	2	Emp
CO3	List the Software Quality Management techniques	2	S
CO4	Analyze Software Configuration Management – Risk Management	2	Emp
CO5	Classify the Project evaluation and emerging trends	1	S

Course Name **Continuous Integration and Continuous Deployment**
Course Code **CS3816**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the Data flow analysis.	2	Emp
CO2	Understand the Integration and Continuous deployment	2	Emp
CO3	Learn anatomy of continuous delivery pipeline.	2	S
CO4	Know the detailed concepts of different version control system	2	Emp
CO5	Understands static code analysis.	1	S

Course Name **Cryptography and Network Security**
Course Code **CS3609**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO2	Learn and Understand the Public-Key Infra	2	Ent
CO3	e able to digitally sign emails and files. Understand ulnerability assessments and the weakness of using asswords for authentication. Be able to perform simple ulnerability assessments and password audits	2	S
CO4	e able to configure simple firewall architectures	3	Emp
CO5	nderstand Virtual Private Networks	3	Emp

Course Name **Android Development**
Course Code **CS3610**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand mobile application development trends and Android platform	2	Emp
CO2	To analyze the need of simple applications, game development, Location map based services	2	Ent
CO3	Students can take the knowledge of various interface application.	2	S
CO4	Students can able to link their application to google platform.	3	Emp
CO5	To be able to understand the concepts of digital marketing on android platform.	3	Emp

Course Name **Digital Image Processing**
Course Code **CS3611**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students would be able to develop Mathematical background required for Machine learning architecture algorithmic/ Programming based on real life application using text and speech	2	Emp
CO2	Students would be able to develop the syntax and architecture of word and sentence architecture with its basic copra of Natural Language	2	Emp..
CO3	Students would be able to develop model and parsing the text for language modeling and limitations of these models also explored	2	S
CO4	Students would be able to apply applications of advanced NLP with Deep learning and machine learning framework are developed.	2	Ent
CO5	Students would be able to Find out the future direction and limitation of AI	1	S

Course Name **Natural Language Processing using Python**
Course Code **CS3625**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students would be able to develop Mathematical background required for Machine learning architecture algorithmic/ Programming based on real life application using text and speech	2	Emp..
CO2	Students would be able to develop the syntax and architecture of word and sentence architecture with its basic copra of Natural Language	2	Emp..
CO3	Students would be able to develop model and parsing the text for language modeling and limitations of these models also explored	2	S
CO4	Students would be able to apply applications of advanced NLP with Deep learning and machine learning framework are developed.	2	Ent
CO5	Students would be able to Find out the future direction and limitation of AI	1	S

Course Name **Digital Forensics Part-1**
Course Code **CS3651**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student should be able to understand the Digital Evidence Acquisition Essentials.	2	Emp
CO2	The student should be able to understand the Process of Non-Live Forensics	2	Emp
CO3	The student should be able to understand the live forensics.	2	S

Course Name **Data Science for IoT**
Course Code **CS3617**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Critically review a range of data science solutions for a variety of IoT analytics scenarios, and evaluate their efficiency for industrial applications.	2	Emp
CO2	Demonstrate critical understanding of the data science solutions development process for IoT systems.	2	Emp..
CO3	Analyse, evaluate, design and implement data science solutions for a variety of industrial IoT applications.	2	S
CO4	Apply industrial standards in developing IoT applications.	2	Ent
CO5	Demonstrate problem solving techniques and preparation for further research in the area	1	S

Course Name **DATA MODELING**
Course Code **CS3618**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Describe the importance of information within an organization	2	Emp
CO2	Understand the Systems Development Life Cycle	2	Emp
CO3	Describe the process of modeling business requirements	2	S
CO4	Apply business concepts to a data model	2	Ent
CO5	Understand the concept of data normalization	1	S

Course Name **PHP and Perl Programming**
Course Code **CS3619**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the fundamental principles of PHP and Perl, including variables, data types, control structures, and functions.	2	Emp
CO2	Apply PHP and Perl to create and modify web applications and scripts, including handling user input, database integration, and error handling.	2	Emp
CO3	Analyze the performance and security issues of PHP and Perl code and recommend improvements based on best practices.	2	S
CO4	Evaluate the suitability of PHP and Perl for specific programming tasks and compare their strengths and weaknesses.	2	Ent
CO5	Create complex web applications and scripts using PHP and Perl, incorporating advanced features such as object-oriented programming, regular expressions, and modules.	1	S

Course Name **Advanced Web Technology**

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Course Code **CS3620**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand HTML5 document structure	2	Emp
CO2	Understand features of HTML5	2	Emp
CO3	Understand how play audio and video	2	S
CO4	Understand how to draw graphics	2	Ent
CO5	Understand saving content using Local Storage, Web Storage	2	S

Course Name **Wireless Networks**
Course Code **CS3703**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the concept about Wireless networks, protocol stack and standards and analyze the network layer solutions for Wireless networks	2	Emp
CO2	To study about fundamentals of internetworking of WLAN and WWAN.	2	Emp
CO3	To learn about evolution of 5G Networks, its architecture and applications.	2	S
CO4	Understand basics of propagation of radio signals and radio resource management techniques	2	Emp
CO5	Understanding emerging trends in Wireless communication like WiFi , WiFimax	1	S

Course Name **Soft Computing**
Course Code **CS3704**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To Learn the various soft computing frame works.	2	Emp
CO2	To familiarize with design of various neural networks.	2	Emp
CO3	To exposed to fuzzy logic, Learn genetic programming	2	S
CO4	Apply various soft computing frame works .Design of various neural networks.	2	Ent
CO5	Apply genetic programming. Discuss hybrid soft computing.	1	Emp

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Course Name **Computer Vision**
Course Code **CS3707**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To introduce students the fundamentals of image formation; To introduce students the major ideas, methods,	2	Emp
CO2	To introduce students the major ideas, methods, and techniques of computer vision and pattern recognition;	2	Emp
CO3	To develop an appreciation for various issues in the design of computer vision and object recognition systems;	2	Emp
CO4	To provide the student with programming experience from implementing computer vision and object recognition applications.	2	Emp
CO5	The Students should be able to build image processing applications	2	Emp

Course Name **Data Visualization**
Course Code **CS3724**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the fundamental design principles and different types of data visualization.	2	Emp
CO2	Identify both positive and negative impacts of data-informed decision across a variety of domains.	2	Emp
CO3	Apply the fundamental concepts of data visualization to define a project in your field of study.	2	Emp
CO4	Practice the core principles using widely available tools (e.g. Tableau).	2	Emp
CO5	Demonstrate the best practice that presents your story in the process of creating data visualization including connecting to different data sources, assessing to the quality of the data, and converting raw data into data visualizations that provide actionable information.	2	Emp

Course Name **Sampling Methods**
Course Code **CS3711**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the basic concepts and importance of sampling over complete enumeration.	2	Emp
CO2	To understand the procedure for proportions and percentage in selecting samples.	2	Emp
CO3	To understand the importance and estimation of mean and variance of simple random sampling.	2	Emp
CO4	To understand the importance and estimation of mean and variance of stratified and systemic random sampling.	2	Emp
CO5	To understand the importance and estimation of mean and variance of cluster sampling for equal and unequal clusters.	2	Emp

Course Name **Machine Learning for Image Processing**
Course Code **CS3712**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Review the fundamental concepts of a digital image processing system.	2	Emp
CO2	Analyze images in the frequency domain using various transforms.	2	Emp
CO3	Evaluate the techniques for image enhancement and image restoration.	2	Emp
CO4	Categorize various compression techniques.	2	Emp
CO5	Interpret Image compression standards.	2	Emp

Course Name **JavaScript Frameworks**
Course Code **CS3715**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students should be able to familiar with client-side Javascript frameworks and the Angular framework.	2	Emp
CO2	The students should be able to implement single page applications in Angular.	2	Emp
CO3	The students should be able to use various Angular features including directives, components and services	2	Emp
CO4	The students should be able to implement a functional front-end web application using Angular	2	Emp

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CO5	The students should be able to use MEAN Stack	2	Emp

Course Name **Cross Platform Application Development**
Course Code **CS3716**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students should be able to develop Mobile web applications	2	Emp
CO2	The students should be able to develop SPA mobile web applications using AngularJS	2	Emp
CO3	The students should be able to develop Hybrid Apps using Phonegap	2	Emp
CO4	The students should be able develop nice UI Hybrid App suing ionic	2	Emp
CO5	The students should be able to use Ionic	2	Emp

Course Name **Organization and Architecture of Computer**
Course Code **CS3705**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand basic structure and operation of a digital computer system.	2	Emp
CO2	To introduce the processor architectures, memory organization and mapping techniques to students.	2	S
CO3	To be able to analyze the design of arithmetic and logic unit and understanding of the fixed point and floating point arithmetic operations.	2	S
CO4	To give the students an elaborate idea about the different memory systems and buses.	2	Emp
CO5	To understand the hierarchical memory system, cache memories and virtual memory, I/O Communication	1	Emp

Course Name **Data Compression**
Course Code **CS3706**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To gain a fundamental understanding of data compression methods for text, images, and video.	2	Emp

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CO2	To understand related issues in the storage, access and use of large data sets.	2	Emp
CO3	To illustrate the concept of various algorithms for compressing text, audio, image and video.	2	S
CO4	Understand the structural basis for and performance metrics for commonly used lossy techniques.	2	Emp
CO5	Understand conceptual basis for commonly used lossy compression techniques.	1	S

Course Name **Malware Analysis and Reverse Engineering II**
Course Code **CS3751**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand basics of Malware Analysis and Reverse Engineering-2.	2	Emp
CO2	Comprehend the intricate concept of malware analysis.	2	Emp
CO3	Able to decode cyber security issues in malware based attacks.	2	S
CO4	Perform evaluation of user support & dynamic malware analysis	2	Emp
CO5	Learn Automated Malware Analysis Tools	1	S

Course Name **Time Series Analysis and Forecasting**
Course Code **CS3713**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the basic concepts of time series analysis.	2	Emp
CO2	To understand the elementary time series models and model evaluation techniques.	2	Emp
CO3	To understand the integration process of non-stationary data set.	2	S
CO4	To understand the importance of ARMA and ARIMA models for forecasting.	2	Emp
CO5	To understand the basic concepts and estimation procedure for VAR models.	1	S

Course Name **Advanced Machine Learning**
Course Code **CS3714**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Implement Machine learning techniques using tensorflow	2	Emp
CO2	Assess ensemble models involved in machine learning concepts	2	Emp
CO3	Understand reinforcement learning concepts of machine learning	2	S
CO4	Test the built models using validation techniques	2	Emp
CO5	Deploy the machine learning models on cloud or local server	1	S

Course Name **Web3.0**
Course Code **CS3717**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Developing a solid understanding of the key concepts and principles of Web 3.0.	2	Emp
CO2	Gaining practical experience with Web 3.0 tools and frameworks, and the ability to create decentralized applications.	2	Emp
CO3	Analyzing and evaluating Web 3.0 applications and use cases in various industries.	2	S
CO4	Understanding the challenges and opportunities presented by Web 3.0 and their potential impact on society and the economy.	2	Emp
CO5	Identifying potential investment and entrepreneurship opportunities in the Web 3.0 ecosystem.	1	S

Course Name **Advanced Android Application Development**
Course Code **CS3718**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to use camera and location api to build Android Apps	2	Emp
CO2	Students will be able to understand services and receivers to build Android Service Apps	2	Emp
CO3	Students will be able to implement threads and graphics to build Game kind of Android Apps	2	S
CO4	Students will be able to integrate third party api to build rich Android Apps	2	Emp

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CO5	Students will be able to understand Universal Applications	2	S

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rogram Name **Master of Technology in Computer Science & Engineering**

Course Name **Advanced Discrete Structure**

Course Code **CS4106**

Unit-wise	Descriptions	BL	Employability
CO1	Ability to apply mathematical logic to solve problems	2	Emp
CO2	Understand sets, relations, functions and discrete	2	S
CO3	Able to use logical notations to define and reason about	2	S
CO4	Able to formulate problems and solve recurrence	2	En
CO5	Able to model and solve real world problems using	1	None

Course Name **Advanced Design and Analysis of Algorithm**

Course Code **CS4107**

Unit-wise	Descriptions	BL	Employability
CO1	Express combinatorial problems as maximumflow/minim	3	**s**
CO2	Perform reductions to prove NP-completeness.	3	**Emp**
CO3	Explain what NP-completeness means and does not mea	2	**Emp**
CO4	Devise algorithms that solve NP-complete problems on re	2	**Emp**
CO5	Use linear programming to obtain approximation algorith	2	**Emp**

Course Name **Computer Network and Distributed Systems**

Course Code **CS4108**

Unit-wise	Descriptions	BL	Employability
CO1	Explain in a concise manner how the Internet is construct	2	**s**
CO2	Reason about design choices at different layers in the TCP	3	**Emp**
CO3	Use standard tools to debug a network path and work in	3	**Emp**
CO4	Explain basic data and net security.	3	**Emp**
CO5	Theorize about different types of limitations in an Interne	3	**Emp**

Course Name **Advanced Operating System**

Course Code **CS4109**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Hands-on experience with the development of a specific	2	s
CO2	Designing the evaluation plan to test the developed syste	2	S
CO3	Learning the recent development of Operating Systems	2	Emp
CO4	Identifying the major research challenges in current resea	3	Emp
CO5	Working in a team and presenting the results by oral pres	3	Emp

Course Name **Advanced Computer Architecture**

Course Code **CS4110**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To make students know about the Parallelism concepts in	2	s
CO2	To give the students an elaborate idea about the differen	2	S
CO3	To introduce the advanced processor architectures to the	2	Emp
CO4	To make the students know about the importance of mul	3	Emp
CO5	To study about data flow computer architectures	3	Emp

Course Name **Advanced Operating System Lab**
Course Code **CS4141**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the challenges of the system software in m	3	Emp
CO2	To promote research activities to uphold in the theory an	3	Emp
CO3	To develop scientific writing skills through a series of labo	3	Emp

Course Name **Advanced Data Base Management System**
Course Code **CS4208**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Explain and evaluate the fundamental theories for advan	3	s
CO2	Design and implement parallel database systems with eva	3	S
CO3	Assess and apply database functions of distributed databa	3	Emp
CO4	Evaluate different database designs and architecture.	2	Emp
CO5	Administer and analyze database with query optimization	2	Emp

Course Name **Advanced Database Management System Lab**
Course Code **CS4241**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand, appreciate and effectively explain the under	2	s
CO2	Design and implement a database schema for a given pro	2	Emp
CO3	Normalize a database	2	Emp

Course Name **Web Technology**
Course Code **CS4209**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Describe the concepts of World Wide Web, and the requi	2	S
CO2	Develop web pages using the HTML and CSS features with	3	S
CO3	Use the JavaScript to develop the dynamic web pages.	3	Emp
CO4	Construct simple web pages in PHP and to represent data	2	Emp
CO5	Use server side scripting with PHP to generate the web p	3	Emp

Course Name **Advanced Theory of Computation**
Course Code **CS4210**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Interpret the mathematical foundations of computation i	2	S
CO2	Construct the abstract machines including finite automat	3	S
CO3	Make use of pumping lemma to show that a language is n	3	Emp
CO4	Construct the grammar for any given finite automata, pus	2	Emp
CO5	Outline the characteristics of P, NP and NP Complete pro	3	Emp

Course Name **Software Process & Management**
Course Code **CS4215**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Identify the different project contexts and suggest an app	2	S
CO2	Practice the role of professional ethics insuccessful softw	3	S
CO3	Identify and describe the key phases of project managem	3	Emp
CO4	Determine an appropriate project management approach	2	Emp
CO5	Comparative analysis on Process Vs Product metrics.	3	Emp

Course Name **Data Mining and Data Warehousing**
Course Code **CS4211**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Understand warehousing architectures and tools for syste	2	S
CO2	Understand KDD process for finding interesting pattern fr	3	S
CO3	Remove redundancy and incomplete data from the datas	3	Emp
CO4	Characterize the kinds of patterns that can be discovered	2	Emp
CO5	Discover interesting patterns from large amounts of data	3	Emp

Course Name **Modeling and Simulation**
Course Code **CS4212**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Students will understand the techniques of modeling in t	2	S
CO2	knowledge about a system and develop the capability to	3	S
CO3	Students will learn different types of simulation techn	3	Emp
CO4	Students will learn to simulate the models for the purpos	2	Emp
CO5	Students will understand the techniques Turing Machine	3	Emp

Course Name **Neural Networks**
Course Code **CS4216**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the difference between biological neuron an	2	S
CO2	Understand the application areas of neural networks	3	S
CO3	Understand building blocks of Neural Networks.	3	Emp
CO4	Develop neural network models	2	Emp
CO5	Design and develop applications using neural networks.	3	Emp

Course Name **Soft Computing**
Course Code **CS4213**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Develop intelligent systems leveraging the paradigm of so	2	S
CO2	Implement, evaluate and compare solutions by various so	3	S
CO3	Recognize the feasibility of applying a soft computing me	3	Emp
CO4	Design the methodology to solve optimization problems	2	Emp
CO5	Design hybrid system to revise the principles of soft comp	3	Emp

Course Name **Artificial Intelligence**
Course Code **CS4214**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the informed and uninformed problem types	2	S
CO2	Apply difficult real life problems in a state space represen	3	S
CO3	Design and evaluate intelligent expert models for percep	3	Emp
CO4	Formulate valid solutions for problems involving uncertai	2	Emp
CO5	Demonstrate and enrich knowledge to select and apply A	3	Emp

Course Name **Pattern Recognition**
Course Code **CS 4304**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Explain and compare a variety of pattern classification, st	2	S
CO2	Summarize, analyze, and relate research in the pattern re	3	S
CO3	Apply performance evaluation methods for pattern recog	3	Emp
CO4	Apply pattern recognition techniques to real-world proble	2	Emp
CO5	Implement simple pattern classifiers, classifier combinati	3	Emp

Course Name **: Information System & Audit**
Course Code **CS 4305**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Understanding of Governance and Management of Infor	2	S
CO2	Understanding of IS acquisition, development and imple	3	S
CO3	Understanding of IS operations, maintenance and suppor	3	Emp
CO4	Understanding of a protection of information assets audit	2	Emp
CO5	Understanding of a BC and DR audit	3	Emp

Course Name **Multimedia and Graphics**
Course Code **CS4306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Utilize and optimize graphic file formats and their individ	2	S
CO2	Relate the primary features of pixel resolution and color	3	S
CO3	Utilize industry standard development tools for design an	3	Emp
CO4	Create, edit, and optimize graphic images for use in vario	2	Emp
CO5	Understand the use of user interfaces	3	Emp

Course Name **Cyber Laws**
Course Code **CS4303**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Make Learner Conversant With The Social And Intellectua	2	S
CO2	Explore The Legal And Policy Developments In Various Co	3	S
CO3	Develop The Understanding Of Relationship Between Co	3	Emp
CO4	Give Learners In Depth Knowledge Of Information Techno	2	Emp
CO5	Make Study On Various Case Studies On Real Time Crime	3	Emp

Course Name **Research Methodology**
Course Code **ME4307**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand research problem formulation.	2	S
CO2	Analyze research related information	3	S
CO3	Follow research ethics	3	Emp
CO4	Understand that today's world is controlled by Computer,	2	Emp
CO5	Understanding that when IPR would take such important	3	Emp

Course Name **Research Methodology Lab**
Course Code **ME4340**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand and use the Basics Excel commands	3	S,Em
CO2	Students should be able to understand the Graphical presentation of data -Histogram, frequency polygon, pie-charts and bar diagrams	4	S
CO3	Students should be able to understand the SPSS, layout, menu and analyzing the data using different statistical techniques.	4	S

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Program Name: **Bachelor of Vocational Studies in Automotive**

Course Name **Workshop Safety, Behavioral Training and Technical English**

Course Code **BV3101**

Unit-wise Course	Descriptions	BL	Employability
CO1	Students should be able to learn workshop safety and	2	Em
CO2	Students should be able to understand and learn about	2	Em
CO3	Students should be able to understand technical English,	2	Em

Course Name **Engineering drawing**

Course Code **BV3102**

Unit-wise Course	Descriptions	BL	Employability
CO1	Students should be able to learn the fundamentals of	2	Em
CO2	Students should be able to understand and learn how to do	3	Em
CO3	Students should be able to understand Engineering Drawing	3	Em

Course Name **General Engineering**

Course Code **BV3103**

Unit-wise Course	Descriptions	BL	Employability
CO1	Students should be able to learn the basic of material,	2	Em
CO2	Students should be able to understand and learn about	3	Em
CO3	Students should be able to understand welding techniques,	3	Em

Course Name **Manufacturing Process, Quality Control and Inspection**

Course Code **BV3104**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the basic of Manufacturing Processes, Fundamental of machine tools, metal forming process etc.	2	Em
CO2	Students should be able to understand and learn how to process plastic, powder metallurgy process, Heat treatment of metals and recent development of manufacturing.	2	Em
CO3	Students should be able to understand awareness to quality control, inspection, allowances and standardization of product.	3	Em

Course Name **Behavioral and Communication Skills, Computer Fundamentals and Awareness, Measuring Instruments**

Course Code **BV3201**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the Types of communication – Verbal and non verbal, Art of listening and writing.	2	Em
CO2	Students should be able to learn the fundamentals of computer and its parts also understand the basic software and computer hardware.	2	Em
CO3	Students should be able to understand and learn about Metrology, Selection of measuring instruments, hand tools and their safety.	3	Em

Course Name **Workshop Calculation and Science, Fitting, Sheet Metal and General Engineering**
Course Code **BV3301**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand and learn how to do calculation by using Algebra, Logarithm, Trigonometry and other mathematical tools.	3	Em
CO2	Students should be able to understand and learn the fitting , metal sheet , carpentry workshop, Wiring & Soldering etc.	3	Em
CO3	Students should be able to understand by practical training in the industry allotted to the student.	3	Em

Course Name **Engineering Drawing, Electrical and Electronics**
Course Code **BV3401**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand Engineering Drawing and its importance and also the different types of standards used in engineering drawing.	2	Em

CO2	Students should be able to understand and learn the basic electrical principles and devices, magnetism, capacitance etc.	2	Em
CO3	Students should be able to understand Electrons and protons in an atom, Structure of atom, valance & conduction electron ,Conductors, Insulators, Semiconductors.	2	Em

Course Name **Basic Engineering 1**
Course Code **BV3501**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the basic principal and application of welding, Principles of Shielded Metal Arc Welding (SMAW), TIG Welding, Familiarisation with the machinery use equipment and their use.	2	Em

Course Name **Basic Engineering 2**
Course Code **BV3502**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand and learn the Machining Process:- 1.Cutting speed / feed, Different types of tools, Turning, Facing, plain turning , Knurling, threads and threading etc.	2	Em

Course Name **Environmental Science**
Course Code **BV3601**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to learn the scope and importance of environment, Disaster Management, flood earth quick, cyclone and landslides. Natural Resources: Renewable and Non- renewable.	2	Em
CO2	Students should be able to understand and learn Concept of an ecosystem, Structure and function of an ecosystem, Biodiversity and its Conservation.	2	Em
CO3	Students should be able to understand Environmental Pollution, causes, effects and control measures of different types of pollution.	2	Em
CO4	Students should be able to understand the Social Issues, like sustainable development, Water conservation, rain water harvesting, watershed management, Environmental ethics etc.	2	Em
CO5	Students should be able to understand the Human Population and the Environment, Role of Information Technology in environment and Human health.	2	Em

Course Name **Industry Specific Project Work**
Course Code **BV3640**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn by practical training in the industry allotted to the student	2	Em

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Program Nam **Bachelor of Technology in Mechanical Engineering**

Course Name **Mathematics I**

Course Code **MA3102**

Unit-wise	Descriptions	BL	Employability
CO1	Students should be able to learn the basic principles of	2	Em
CO2	Students should be able to understand and learn how to	2	S
CO3	Students should be able to understand theorems related to	3	S
CO4	Students should be able to know basic application	3	En
CO5	Students should be able to solve the linear equations using	3	None

Course Name **Human Values and Ethics**

Course Code **PS3101**

Unit-wise	Descriptions	BL	Employability
CO1	Students should be able to understand the significance of	2	Em
CO2	Students should be able to distinguish between the Self	2	S
CO3	Students should be able to understand the value of	2	S
CO4	Students should be able to understand the harmony in	2	En
CO5	Students should be able to distinguish between ethical and	3	None

Course Name **Basics of Computer and C Programming**

Course Code **CS3103**

Unit-wise	Descriptions	BL	Employability
CO1	Students should be able to understand Computer and its	2	Em
CO2	Students should be able to use the C programming	2	S
CO3	Students should be able to understand arrays, their functions that will help them to design new problem solving approach in 'C'.	2	S
CO4	Students should be able to understand pointers, recursion, and macros for solving complex problems in 'C'.	2	En
CO5	Students should be able to gain a broad perspective about the uses of computers in engineering industry.	2	None

Course Name **Basic Electrical and Electronics Engineering**

Course Code **EC3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the basic theorms used in simplifying the electrical circuits.	3	Em
CO2	Students should be able to Know about the generation and utilization of three phase alternating quantities.	3	S

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CO3	Students should be able to Know about single phase transformer and its various parameters.	2	S
CO4	Students should be able to understand the various components used in electronics like P-N junction and Zener dioide.	2	En
CO5	Students should be able to understand basics of digital electronics and various electrical measurement devices.	3	None

Course Name **Basics of Computer and C Programming Lab**

Course Code **CS3140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to approach the programming tasks using techniques learned in Theory and write pseudo-codes based on the requirements of the problem.	3	Em
CO2	Students should be able to use the comparisons and limitations of the various programming constructs and choose the right one for the task in hand.	3	S
CO3	Students should be able to write the program based on numerical techniques learned and able to edit, compile, debug, correct, recompile and run it.	3	S

Course Name **Basic Electrical and Electronics Engineering Lab**

Course Code **EC3140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to know about the basic concepts of the Kirchhoff's current and voltage laws and perform Thevenin's, Norton's, superposition and maximum power transfer theorems.	3	Em
CO2	Students should be able to analyze and understand the characteristics of transistors and semiconductor diodes and analyze the half-wave and full-wave rectifier using silicon diode.	4	S
CO3	Students should be able to Learn the basic concepts of various logic gates.	2	S

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Course Name **Engineering Graphics and Design**

Course Code **ME3145**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to know about the basic concepts of the Kirchhoff's current and voltage laws and perform Thevenin's, Norton's, superposition and maximum power transfer theorems.	3	Em
CO2	Students should be able to analyze and understand the characteristics of transistors and semiconductor diodes and analyze the half-wave and full-wave rectifier using silicon diode.	4	S
CO3	Students should be able to Learn the basic concepts of various logic gates.	2	S

Course Name **Mathematics II**

Course Code **MA3202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand ordinary differential equations, with their solutions through constant coefficients. They will also learn about Euler- Cauchy equations, Solution of second order differential equations by changing dependent and independent variables.	3	Em
CO2	Students should be able to understand the properties of Fourier series. and the relationship between Fourier series and linear time invariant system.	2	S
CO3	Students should be able to learn the basics of the theory of error and the approximation theory; the fundamental principles of mathematical modeling; the numerical methods for solving problems of algebra; and the methods of numerical integration and differentiation.	2	S
CO4	Students should be able to learn about Interpolation which is a useful mathematical and statistical tool used to estimate values between two points.	2	En

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CO5	Students should be able to formulate and solve problems involving random variables and apply statistical methods for analysing experimental data. They will also learn to analyse the complex function with reference to their analyticity, integration using Cauchy's integral and residue theorems. Taylor's and Laurent's series expansions of complex function will be also explored at the end of Unit.	1	None

Course Name **Engineering Physics**

Course Code **PH3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand special theory of realtivity (STR), concepts linked with STR and radiationlaws. extract information from partial derivative models in order to interpret reality.	3	Em
CO2	Students should be able to understand interference, diffraction and abletoconnectittoafewengineering applications.	3	S
CO3	Students should be able to explain the phenomena of polarization in electromagnetic waves and their production, Detection and analysis. They will also understand the operation and working principle of laser.	3	S
CO4	Students should be able to understand electromagnetic theory using maxwells equations, and its uses in various engineering application. They will also understand the difference between dia,para and ferromagnetic materials.	3	En
CO5	Students should be able to explain fundamentals of quantum mechanics and apply it to problems on bound states.	3	None

Course Name **Environmental Studies**

Course Code **CY3205**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	2	Em
CO2	Students should be able to understand the solutions related to environmental problems related with the renewable& non-renewable resources.	2	S
CO3	Students should be able to understand the importance of ecosystem and biodiversity and the method of conservation of biological diversity.	2	S
CO4	Students should be able to understand different components of the environment and their function and the effects pollution on environment and should be able to understand the concept of sustainable development.	3	En
CO5	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	3	None

Course Name **Fundamentals of Mechanical and Mechatronics Engineering**

Course Code **ME3103**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand application of the laws of thermodynamics to wide range of systems and aware about the basics of thermal engineering applications in IC engines and its working.	2	Em
CO2	Students should be able to know and apply the types of forces and concepts used to analyze force mechanisms	2	S
CO3	Students should be able to analyze and understand the Stress-strain diagrams and use of material.	2	S
CO4	Students should be able to understand the various machining processes	2	En

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CO5	Students should be able to gain knowledge on the various engineering materials and their properties.	1	None

Course Name **Advance Computer Programming & Software**

Course Code **CS3207**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand about pointers and their usage in programming	3	Em
CO2	Student will be able to understand the usage of arrays in programming	2	S
CO3	Student will be able to use arrays,function pointer for programming	3	S
CO4	Student will be able to program using various C libraries	3	Em
CO5	Student will be able to know the various software tools	2	Em

Course Name **Engineering Physics Lab**

Course Code **PH3140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the processof performing the experiments on wavelength andfocal length practically.	3	Em
CO2	Students should be able to verify the theortical calculations with observed results in practical experiments.	3	S
CO3	Students should be able to Enhance the skills of using appratus for verification of different laws.	3	S

Course Name **Advance Computer Programming & Software Lab**

Course Code **CS3245**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to develop Pointer, recursion, functions and array based programs in C.	2	Em
CO2	Students should be able to develop Dynamic memory allocation technique based programs and execute Command line Arguments in C.	2	S
CO3	Students should be able to execute C programs and Shell Commands in Unix Environment.	2	S

Course Name **Workshop Practice**

Course Code **ME3140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to develop the ability to perform the various operations with the help of lathe machine and its tools	3	Em
CO2	Students will be able to develop the ability to perform the various operations using welding	3	S
CO3	Students will be able to develop the ability to perform the various operations using fitting tools	3	S
CO4	Students will be able to develop the ability to perform the various operations on wood using carpenty tools	3	s
CO5	Students will be able to develop the ability to perform the various operations using Sheet metal and blacksmithy tools	3	s

Course Name **Disaster Preparedness and Management**

Course Code **CE3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be able to develop the ability to perform the various operations with the help of lathe machine and its tools	3	Em
CO2	Students will be able to develop the ability to perform the various operations using welding	3	S
CO3	Students will be able to develop the ability to perform the various operations using fitting tools	3	S
CO4	Students will be able to develop the ability to perform the various operations on wood using carpenty tools	3	s
CO5	Students will be able to develop the ability to perform the various operations using Sheet metal and blacksmithy tools	3	s

Course Name **Strength of Materials**

Course Code **ME3308**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to know and understand various mechanical properties of materials for real time applications.	2	Em
CO2	Students should be able to understand the behaviour of trusses under loads and beams under the application of shear force and bending moment.	3	S
CO3	Students should be able to understand the behaviour of shafts under torsion and behavior of cylinder and springs under various loads.	3	S
CO4	Students should be able to understand the behaviour of beams under stresses and apply the knowledge through numerical problems.	3	En
CO5	Students should be able to understand the behaviour of columns and struts and estimate effective length under different conditions.	3	None

Course Name **Materials Science**

Course Code **ME3302**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Student should be able to understand the fundamental knowledge about engineering materials, its modern and atomic concepts, properties, imperfections and applications.	2	Em
CO2	Student should be able to learn about the magnetic and electric properties and diffusion of solids.	2	S
CO3	Student should be able to learn the fundamental knowledge about Iron-Carbon Equilibrium Phase Diagram and alloys.	2	S
CO4	Student should be able to learn the different heat treatment processes and corrosion, its causes, effects and prevention.	2	En
CO5	Student should be able to learn the fundamental knowledge about powder metallurgy, composites, ceramics and plastics.	2	None

Course Name **Thermal Engineering**

Course Code **ME3306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand the basic concepts of thermodynamics and know the thermodynamic relations	2	Em
CO2	Student should be able to understand the formation of steam and calculate the efficiency of different power cycles.	3	S
CO3	Student should be able to understand the functioning of steam power plant, gas power plant and their major components.	3	S
CO4	Student should be able to analyze the performance of boilers and flow through nozzles used in existing thermal system.	3	S
CO5	Student should be able to know concepts of compressor and its working	3	S

Course Name **Fluid Mechanics and Machines**

Course Code **ME3304**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to understand about basics of fluid mechanics and concepts related to fluid statics.	2	Em
CO2	Students should be able to clear concepts related to fluid kinematics and fluid dynamics and clear concepts related to basic equations used in fluid dynamics also student able to solve application problems of fluid dynamics.	2	S
CO3	Students should be able to understand the mechanics of fluid and to study and their applications in flow through pipes and External Flows.	2	S
CO4	Students should be able to understand the properties and characteristics of basics of turbomachinery and Hydraulic turbines. Also able to solve application problems.	2	En
CO5	Students should be able to understand the properties and characteristics of a fluid and also analyze the performance of pumps and Compressors.	2	None

Course Name **Computer Aided Machine Drawing**

Course Code **ME3307**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to know about various Conventions and symbols and study limits, fits and Tolerances he should be able to Draw different types of screw threads, threaded fasteners, riveted joints and welded joints.	3	Em
CO2	Student should be able to understand and draw the part and assembly drawing of Machine Components.	4	S
CO3	Student should be able to understand the basic commands of AutoCAD software and draw 2D and 3D drawing on this software.	4	S,Em

Course Name **Strength of Materials Lab**

Course Code **ME3344**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to calculate the hardness of different materials used in mechanical engineering	3	Em
CO2	Students should be able to perform different tests like impact test, torsion test, tensile and compressive tests to check the mechanical properties of materials	3	S
CO3	Students should be able to check the deflection in beams and perform different tests like creep test and buckling of column	3	S

Course Name **Thermal Engineering Lab**

Course Code **ME3343**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should understand the working and determine the performance parameters of IC engines.	3	Em
CO2	Student should understand the construction and working of different boilers	2	S
CO3	Student should able to analyse the performance parameters of reciprocating compressor.	3	S

Course Name **Material Science Lab**

Course Code **ME3341**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to learn and identify the different properties possessed by the engineering materials.	3	Em
CO2	Student should be able to learn and perform the microscopic examination using metallurgical microscope and specimen polishing machine.	3	S
CO3	Student should be able to learn and perform the different heat treatment processes and calculate thedifference in hardness before and after heat treatment.	3	S

Course Name **Fluid Mechanics and Machines Lab**

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Course Code **ME3342**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn practical espects of fluid Mechanics like pressure measurement, losses in fluid flow or due to shape change and apply them in designing and problem solving	3	Em
CO2	Students should be able to know the practical aspects of various turbines such as kaplan, francis and apply in designing process	3	S
CO3	Students should be able to know the practical aspects of various pumps such as reciprocating pump and apply in designing process	3	S

Course Name **Heat Transfer**

Course Code **ME3404**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to Understand the modes of heat transfer and its governing laws and also acquire skills to calculate heat transfer in steady state conditions	2	Em
CO2	Student should be able to calculate the heat transfer in transient conditions and understand the importance of extended surface.	2	S
CO3	Student should be able to understand convective heat transfer and find the heat transfer coefficient in varying conditions.	2	S
CO4	Student should be able to analyse heat exchangers and understand the phase change heat transfer.	2	S
CO5	Student should be able to understand the various principles involved in the radiation heat transfer and find the heat transfer rate	2	S

Course Name **Theory of Machines**

Course Code **ME3402**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand the basic components used in the making of machines and mechanism along with the exploration of their interrelation to give them motion	2	Em
CO2	Student should be able to understand the use of clutches, brakes and dynamometers in vehicles and applying the knowledge gained through numerical problems	3	S
CO3	Student should be able to understand the application of flywheel in machines and applying the knowledge gained through numerical problems	3	S
CO4	Student should be able to understand the application of governors in machines and applying the knowledge gained through numerical problems	3	S
CO5	Student should be able to understand the concept of gyroscope and cams in machines & aircrafts and applying the knowledge gained through numerical problems	3	S

Course Name **Manufacturing Science I**

Course Code **ME3410**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand the various considerations in Pattern making &Moulds preparation	2	s
CO2	Student will be able to understand about the Casting Processes and melting furnaces	2	S
CO3	Student will be able to know about the welding process	2	S
CO4	Student will be able to know about the special welding processes	2	S
CO5	Student will know about the weldments design and its testing methods	2	S

Course Name **Measurement and Metrology**

Course Code **ME3603**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to develop the inspection of engineering parts with various precision instruments.	2	Em
CO2	Students should be able to the basic use Principles of measuring instruments and gauges and their uses.	2	S
CO3	Students should be able to the significance of measurement system, errors, transducers, intermediate modifying and terminating devices.	2	S
CO4	Students should be able to the advances in Metrology such as use of CMM, Laser, Machine Vision System for Metrology etc.	2	S
CO5	Students should be able to the Inspection of spur gear, thread elements and Evaluation and inspection of surface roughness.	2	S

Course Name **Manufacturing Science I Lab**

Course Code **ME3445**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to gain the practical knowledge in material casting processes	3	s
CO2	Student will be able to gain practical knowledge of arc and gas welding and cutting processes	3	S
CO3	Student will be able to understand about weld and casting defects	3	S

Course Name **Heat Transfer lab**

Course Code **ME3443**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Student should be able to understand the conduction heat transfer in steady conditions	2	Em
CO2	Student should be able to understand and analysis of heat exchanger	3	S
CO3	Student should be able to analyze the convection heat transfer	3	S

Course Name **Theory of Machines lab**

Course Code **ME3441**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand the principles of working of various links, mechanisms and dynamometers.	2	Em
CO2	Student should be able to determine performance parameters of gyroscope,governors.	4	S
CO3	Student should be know the concept of balancing of masses and determine the critical speed of shafts in loading conditions	3	S

Course Name **Measurement and Metrology Lab**

Course Code **ME3641**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to develop the theoreticalconcepts taught inMechanicalMeasurements& Metrologythrough experiments.	3	Em
CO2	Studentsshouldbe abletodescribe the basic useof Variousmeasuring toolsmeasuring techniques.	3	S
CO3	Studentsshouldbe abletothecalibrationtechniques Ofvariousmeasuringdevices.	3	S

Course Name **Machine Design I**

Course Code **ME3501**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to gain basic concept of machine design and find out the machine component life under the application of various types of load conditions.	3	Em
CO2	Student should be able to design the Shaft, key and coupling under different type of Stress conditions.	2	S
CO3	Student should be able to know the basics of Lever and different types of joints used in mechanical engineering and study how to design them for practical application.	2	S
CO4	Student should be able to Understand the various parts and types of screw jack and design their components according to load value given.	2	S
CO5	Student should be able to understand about different types of spring used in machines and the design procedure adopted for different types of spring.	3	S

Course Name **Manufacturing Science-2**

Course Code **ME3510**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to acquire a fundamental knowledge on metal forming technology	2	s
CO2	Students will be able to understand the rolling and forging metal forming processes used in manufacturing industry.	2	S
CO3	Students will be able to understand the extrusion and drawing metal forming processes used in manufacturing industry.	2	S
CO4	Students will be able to understand the sheet metal forming processes used in manufacturing industry.	2	S
CO5	Students will be able to understand the powder metallurgy techniques adopted in manufacturing	2	S

Course Name **Industrial Engineering and Management**

Course Code **ME3715**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand the management principles.	2	Em
CO2	Student should be able to know the organizational structure and approaches for decision making process.	3	S
CO3	Student should be able to understand the layout of a manufacturing plan	3	S
CO4	Student should be able to apply the method study and perform work measurement techniques for productivity.	2	S
CO5	Student should be able to understand methods to improve productivity and importance of value engineering.	2	S

Course Name **Vehicle Technology**

Course Code **ME3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand the Vehicle's Fundamentals	2	Em
CO2	Student should be able to learn about the applications of various IC Engine Power System	2	S
CO3	Student should be able to understand the working principles of Transmission and understanding of Control System	2	S
CO4	Student should be able to know about the various concept of Suspension and Electrical System	2	S
CO5	Student should be able to get understanding of various Electric Vehicle	2	S

Course Name Vehicle Technology Lab

Course Code ME3541

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand the working of various systems in a vehicle	2	Em
CO2	Student should be able to Know about the types of tyres and tread patterns	3	S
CO3	Student should be able Learn about the fuel standards and emission norms	2	S

Course Name **Manufacturing Science II Lab**

Course Code **ME 3544**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand and perform the rolling, forging and sheet metal operations used in forming process	2	s
CO2	Student will be able to understand the methods to perform extrusion, wire drawing process	2	S
CO3	Student will be able to understand about powder metallurgy techniques	2	S

Course Name **Machine Design II**

Course Code **ME3601**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand about spur gear and design procedure adopted for spur gear under various load conditions.	2	Em
CO2	Student should be able to understand about Helical and Bevel gear and design the helical and bevel gear under various load conditions.	2	S

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CO3	Student should be able to know about Rolling contact bearing and design various types of rolling contact bearing for industrial applications.	2	S
CO4	Student should be able to understand about sliding contact bearing and design various types of sliding contact bearing for industrial applications.	2	S
CO5	Student should be able to know about the general design considerations and selection of Type of IC Engine and Design IC engine Components.	3	S

Course Name **Entrepreneurship and Startup**

Course Code **ME3610**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand the nature and basics of entrepreneurship.	2	Ent
CO2	Student will be able to understand the identification of project and describe the role of agencies in entrepreneurship promotion	4	Ent
CO3	Student will be able to understand and Build an entrepreneurial business idea and identify funding oppurtunies	3	Ent
CO4	Student will be able to understand assess opportunities and constraints for new business ideas	2	Ent
CO5	Student will be able to understand design strategies for successful implementation of ideas by knowing regulatory frameworks	2	Ent

Course Name **Mechatronics and Automation**

Course Code **MT3607**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand basic fundamentals of automation in terms of mechatronics as an interdisciplinary system	2	Em
CO2	Students should be able to understand the fundamentals of sensors and transducers used in automating the industrial environment	2	S

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CO3	Students should be able to understand the fundamentals of actuators and drives used in automating the industrial environment	2	S
CO4	Students should be able to understand the fundamentals of PLC used for automating the systems	2	Em
CO5	Students should be able to understand the fundamentals of micro mechatronic systems used in automating the process	2	Em

Course Name **Industrial Automation Lab**

Course Code **MT3643**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand the various valves used for control operations in automating systems	2	Em
CO2	Student will be able to understand the operation of PLC and implementation of logic in PLC	2	S
CO3	Student will be able to implement the instructions in PLC	2	S

Course Name **Mechatronics Lab**

Course Code **MT3641**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to get knowledge about the different types of sensors and their use in automating the machines	2	Em
CO2	Students should be able to get knowledge about the working of microprocessors in automating the machines	2	S
CO3	Students should be able to get knowledge about the working of various automated systems such as pick & place robot, windscreen wiper motion etc.	2	S

Course Name **Technical VAP I**

Course Code **ME3646**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to apply the engineering knowledge to attain the problem solving skills required during the placement drives.	3	Em
CO2	Student should be able to develop ability to face technical interviews.	3	Em
CO3	Student should be able to know the types of technical questions asked by the companies in the placement drives.	2	Em

Course Name **CAD/CAM**

Course Code **ME 3701**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to develop an understanding of the basics of CAD/CAM, exchange formats, transformation techniques, Basic of FEM and wireframe modeling.	2	Em
CO2	Students should be able to attain a theoretical understanding of surface modeling and solid modeling.	4	S
CO3	Students should be able to understand about NC machine, Part programming by using G and M Code, CNC and DNC machine.	3	S
CO4	Students should be able to attain a theoretical understanding of System devices and method to control NC system.	2	S
CO5	Students should be able to theoretically analyze about advance tool which is used in CAM systems.	2	S

Course Name **Engineering Economics and Project Management**

Course Code **ME3716**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand the fundamentals of economics in operation of an engineering industry	2	Em
CO2	Student will be able to know about break even analysis for economic efficiency of the industry	3	S
CO3	Student will be able to understand the basics of managing a project with feasibility analysis	3	S
CO4	Student will be able to know the methods to monitor the project progress	2	Em
CO5	Student will be able to know the techniques of project appraisal and estimating the project.	3	Em

Course Name **CAD/CAM Lab**

Course Code **ME3740**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to develop an understanding about CAD package and working in sketch mode and understand part features and draw Part modeling of various machine components.	4	Em
CO2	Students should be able to know about CNC Lathe Machine (MTab FANUC controller – standard feature & machine specification)	2	S
CO3	Students should be able to write a part program and simulate the tool part for the given model using FANUC controller for facing, step turning, taper turningand thread cutting.	4	S

Course Name **Quality Engineering Lab**

Course Code **ME3748**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to get knowledge about the working of softwares and their application in quality analysis	3	S
CO2	Student should be able to get knowledge about performing various tools and techniques of quality analysis such as measurement charts, cause and effect analysis and control charts	3	S
CO3	Student should be able to get knowledge about performing various tools and techniques of quality analysis such as process capability, hypothesis testing and Multi-Vari analysis	3	S

Course Name **Technical VAP II**

Course Code **ME3746**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to apply the engineering knowledge to attain the problem solving skills required during the placement drives.	3	Em
CO2	Student should be able to develop ability to face technical interviews.	3	S
CO3	Student should be able to know the types of technical questions asked by the companies in the placement drives.	2	S

Course Name **Refrigeration and Air Conditioning**

Course Code **ME3505/ME3602**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to develop understanding about basics of Refrigeration and clear concepts related to ideal parameters of refrigeration.	3	Em
CO2	Students should be able to clear concepts related to vapor compression refrigeration system.	3	S
CO3	Students should be able to understand the basics of vapor absorption system and its application	2	S
CO4	Students should be able to understand the properties and characteristics of basics of air conditioning.	3	S
CO5	Students should be able to solve cooling load calculations and also able to design of air conditioning system by solving practical problems	3	S

Course Name **Mechanical Vibrations**

Course Code **ME3708**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to develop an understanding of different types of motions and effect of damping.	3	Em
CO2	Students should be able to develop an understanding of single degree of freedom and vibration measuring instruments.		S
CO3	Students should be able to attain a theoretical understanding of Two Degree Freedom System and undamped dynamic.	3	S
CO4	Students should be able to develop an understanding of exact analysis undamped free and forced vibrations of multidegree system.	3	S
CO5	Students should be able to numerical analyze the Rayleigh's, Dunkerley's, Holzer's and Stodola's methods and Critical speed of shafts.	3	S

Course Name **Industrial Inspection and Quality Control**

Course Code **ME3612**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand the principles of measurement and instruements used for measurement	3	Em

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CO2	Student will be able to understand the principles of measurement and inspection using gauges		S
CO3	Student will be able to understand the fundamentals of quality control	3	S
CO4	Student will be able to understand the quality control techniques adopted in industry	3	S
CO5	Student will be able to understand the fundamentals of sampling techniqus	3	S

Course Name **Power Plant Engineering**

Course Code **ME3611**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand about coal based power plants and its systems	2	Em
CO2	Student will be able to about gas based power plants and its systems	2	Em
CO3	Student will be able to about nuclear power plants and its systems	2	Em
CO4	Student will be able to about hydel based power plants and its systems	2	Em
CO5	Student will be able to know the economics,environment and safety issues and standards related to power plants	2	Em

Course Name **Alternative Fuels and Energy Systems**

Course Code **ME3703**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the need of alternative fuels.	2	Em
CO2	Students should be able to compare different types of alcohols and vegetable oils.	2	S
CO3	Students will aware about the production of natural gas, LPG, Hydrogen and Biogas.	2	S
CO4	Students should be able to understand the need of electric and solar power.	2	S
CO5	Students should be able to understand different emission control techniques.	2	S

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Course Name **Finite Element Method**

Course Code **ME3707**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should understand the concepts behind formulation methods in FEM.	2	Em
CO2	Students should be able to Identify the application and characteristics of FEA elements in truss and frames.	3	S
CO3	Students should develop element characteristic equation.	3	S
CO4	Students should be able to apply the FEM 2D concept on steady state heat transfer analysis.	3	S
CO5	Students should be able to understand dynamic analysis in different stepped bar and a beam, time dependent field problems.	2	S

Course Name **Operation Research**

Course Code **ME3503**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand the principles of decision making through linear programming and applying the learnings though numerical problems	3	S
CO2	Student should be able to understand the principles of decision making through transportation & assignment models and applying the learnings though numerical problems.	2	S
CO3	Student should be able to understand the principles of decision making through queuing theory & waiting line models and applying the learnings though numerical problems.	2	S
CO4	Student should be able to understand the principles of decision making through network diagrams such as PERT & CPM and applying the learnings though numerical problems.	2	S
CO5	Student should be able to understand the principles of decision making through Game Strategy and applying the learnings though numerical problems.	2	S

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Course Name **Robotics and Automation**

Course Code **MT3803**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand the basic concepts of Definitions,	2	Em
CO2	Student should be able to understand the types of robots	2	S
CO3	Student should be able to understand the Trajectories Motion and Automation, Robot Navigation and Automation	2	S
CO4	Student should be able to analyze Robot Arm Kinematics	2	S
CO5	Student should be able to know and apply concepts of ROS	2	S

Course Name **Microprocessors in Automation**

Course Code **MT3819**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand fundamentals of number systems,logic gates and 8085 microprocessor	2	Em
CO2	Student will be able to understand fundamentals of machine cycles	2	S
CO3	Student will be able to understand fundamentals of Assembly language programming	2	S
CO4	Student will be able to understand fundamentals of convertor and timers	2	S
CO5	Student will be able to understand fundamentals of digital control	2	S

Course Name **Unconventional Manufacturing Processes**

Course Code **ME3713**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the need of non traditional machining processes and able to classify various processes.	2	Em
CO2	Students should be able to recognize the role of mechanical energy in non-traditional machining processes.	2	S
CO3	Students should be able to various on machining electrically conductive material through electrical energy in non- traditional machining processes.	2	S
CO4	Students should be able to perform process analysis considering the various responses considered in a process.	2	S
CO5	Students should be able to the use of controlled explosive and spark energy in deformation process.	2	S

Course Name **Plastic Processing and Techniques**

Course Code **ME3714**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Understand the various types of PPEs and their usage in Plastic industry and non-conventional blow molding process.	2	Em
CO2	Students should be able to Co-extrusion blow molding displacement processes, blow molding of irregular shaped parts.	2	S
CO3	Students should be able to various screw designs used in extrusion plants, specialized extrusion processes for non-conventional extrusion product.	2	S
CO4	Students should be able to the Reaction injection molding (rim)and features of rim process and, characteristic of rim parts.	2	S
CO5	Students should be able to the use non-conventional injection molding techniques and injection molding of reinforced thermoplastics.	2	S

Course Name **Rapid Prototyping**

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Course Code **ME3806**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand about development of RP systems	2	Em
CO2	Student should be able to understand about Reverse Engineering and New Technologies	2	S
CO3	Student should be able to know about Materials for Rapid Prototyping Systems	2	S
CO4	Student should be able to understand about Liquid and Solid Based Rapid Prototyping Systems	2	S
CO5	Student should be able to know about the Powder Based Rapid Prototyping Systems	2	S

Course Name **Non-Conventional Energy Resources**

Course Code **ME3815**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Identify the renewable energy sources,their utilization and types of solar energy	2	Em
CO2	. Students should be able to understand various concepts related to solar radiation and its measurement	2	S
CO3	Students should be able to understand various concepts related to solar thermal electricity generation	2	S
CO4	Students should be able to Understand the principle of working of nuclear power plants	2	S
CO5	Students should be able to Understand the safety features adopted in nuclear reactors	2	S

Course Name **Supply Chain Management**

Course Code **ME3803**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to Know about the objective and importance of supply chain	2	Em
CO2	Student should be able to Know about thePlanning Demand and Supply in a Supply Chain	2	S
CO3	Student should be able to Know about the Planning and Managing inventories in a Supply Chain	2	S
CO4	Student should be able to Know about the Transportation, Network Design and Information Technology	2	S
CO5	Student should be able to learn about the Coordination in Supply Chain and effect of E-Business	2	S

Course Name **Industrial Hazard and Safety**

Course Code **ME3817**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand about physical occupational hazards and standards	2	Em
CO2	Student will be able to understand about chemical and nuclear occupational hazards	2	S
CO3	Student will be able to understand about biological and ergonomical occupational hazards	2	S
CO4	Student will be able to understand about occupational health and toxicology	2	S
CO5	Student will be able to understand about occupational physiology	2	S

Course Name **Energy Storage System**

Course Code **ME3808**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand the basic concepts of Electrical Energy Storage Technologies	2	Em
CO2	Student should be able to understand the Emerging needs for ees	2	S
CO3	Student should be able to understand the Classification of EES systems	2	S
CO4	Student should be able to analyze the Renewable Energy Systems Simulation of energy storage systems and its management	2	S
CO5	Student should be able to know smart park, electric vehicle charging facility, HESS in microgrid and smart grid, microbial fuel cell, hydrogen fuel cell.	2	S

Course Name **Energy Conservation and Audit**

Course Code **ME3807**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand about Energy conservation	2	Em
CO2	Student should be able to understand about Energy Audit	2	S
CO3	Student should be able to know about Demand Side Management	2	S
CO4	Student should be able to understand about Voltage and Reactive power in Distribution Systems	2	S
CO5	Student should be able to know about the Efficiency in Motors and Lighting system	2	S

Course Name **Lean Manufacturing**

Course Code **ME3810**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand principles about lean manufacturing and importance	2	Em
CO2	Student will be able to know about JIT and TPM principles and implementation technques	2	S
CO3	Student will be able to know about TQM,5S and VSM procedure and principles	2	S
CO4	Student will be able to know implementation technique of Lean manufacturing	2	s
CO5	Student will be able to know about significance of six sigma	2	s

Course Name **Hybrid Vehicle Propulsion**

Course Code **ME3818**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand about hybrid and electric vehicle fundamentals	2	Em
CO2	Student will be able to understand about drive train used in hybrid vehicles	2	S
CO3	Student will be able to understand about electric propulsion unit used in hybrid vehicles	2	S
CO4	Student will be able to understand about energy storage systems	2	s
CO5	Student will be able to understand about energy management techniques	2	s

Course Name **Facility Planning and Design**

Course Code **ME3816**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Student will be able to understand about facilities planning	2	Em
CO2	Student will be able to understand about plant layout	2	S
CO3	Student will be able to understand about group technology	2	S
CO4	Student will be able to understand about line balancing	2	S
CO5	Student will be able to understand about effective material handling	2	S

Course Name **Indian Knowledge System**

Course Code **HU3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will be able to understand the Indian Knowledge System such as historical development, sources and scope.	2	S
CO2	The students will be able to understand the vocabulary system of Indian knowledge system.	2	S
CO3	The students will be able to understand and apply the philosophical foundations and methods of IKS.	3	N
CO4	The students will be able to execute the case studies based on the Indian knowledge system.	3	N
CO5	The students will be able to understand the influence of Indian Knowledge System on world.	2	S

Course Name **United Nations Development Programme**

Course Code HU3202

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about the Structure, Mission, Vision and Goals of UNDP	2	S
CO2	Equip the students with the knowledge of sustainable livelihoods for inclusive economic growth.	2	S
CO3	Students will learn and explore about the Human Development index to promote well being at all ages.	2	S

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CO4	To impart better education on SDGs goals focusing on Gender Equality and Provide Access to Justice to All and Build Effective.	3	N
CO5	Students will develop knowledge regarding environment sustainability.	3	N

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Program Nam **Master of Technology in Thermal Engineering**

Course Name **Optimization Techniques**

Course Code **ME4107**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to first develop a basic understanding of different optimization techniques and then apply them through numerical problems for some of the important techniques of classical optimization	3	s
CO2	Students should be able to understand the principles of optimization through linear programming and applying the learnings though numerical problems	3	s
CO3	Students should be able to understand the different techniques of one dimensional optimization and applying the learnings though numerical problems	3	em
CO4	Students should be able to understand the different unconstrained optimization techniques and applying the learnings though numerical problems	2	em
CO5	Students should be able to understand the modern methods of optimization techniques and applying the learnings though numerical problems	2	em

Course Name: Advanced Fluid Mechanics

Course Code: ME4101

Unit-wise Course Outcome	Descriptions	Descriptions	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand about basics of fluid mechanics and concepts related to fluid statics.	3	s
CO2	Students should be able to know advanced techniques for experimental analysis of fluid flow	2	s
CO3	Students should be able to understand the various concets related to principle to viscous flow.	2	s
CO4	Students should be able to understand the turbulent flow concept in depth .	3	s
CO5	Students should be able to understand concepts related to compressible fluid flow	3	em

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Course Name: Advanced Thermal Engineering
Course Code: ME4109

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand fundamentals of thermodynamic laws	3	Em
CO2	Students should be able to understand the finite difference methods of conduction	3	s
CO3	Students should able to understand about the viscous flow behaviour	3	s
CO4	Students should able to know and apply the advanced concepts of power cycles	4	s
CO5	Students should be able to understand about gas dynamics concepts	3	em

Course Name: Advanced Heat Transfer
Course Code: ME4103

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to Understand the modes of heat transfer and its governing laws and also acquire skills to calculate heat transfer in steady state conditions in one dimension	3	Em
CO2	Students should be able to understand and calculate the 1D and 2D heat transfer in transient conditions and also able to solve problems using finite difference technique.	3	s
CO3	Students should be able to analyse convective heat transfer in different geometries and should know the use of emperical relations	3	s
CO4	Students should able to analyse different phase change heat transfer.	3	s
CO5	Students should be able to evaluate heat transfer by radiation from different complex geometries.	4	s

Course Name: Steam Engineering
Course Code: ME4110

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will have the ability to explain working of different boilers and significance of mountings and accessories.	3	Em
CO2	Students will have the ability to use techniques, skills, and modern engineering tools necessary for boiler performance assessment.	3	s
CO3	Students will have a theoretical and practical background in thermal systems, and will have a good understanding of energy conservation fundamentals. Students will have the ability to analyze thermal systems for energy conservation.	3	s
CO4	Students will have the ability to design a steam piping system, its components for a process and also design economical and effective insulation.	3	s
CO5	Students will have the ability to analyze a thermal system for sources of waste heat design a systems for waste heat recovery.	4	s

Course Name: Advanced Thermal Engineering Lab
Course Code:
ME4140

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should able to understand intricacies of solar plate collector and behaviour of different real gas.	2	Em
CO2	students should able to evaluate the performance parameters of IC engine, heat pipe, AC unit and receprocating compressor	5	S
CO3	students should able to evaluate the dryness fraction of steam	5	S

Course Name: Simulation Modeling and Analysis
Course Code: ME4201

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the basic probability and statistic, random variables and their properties	2	Em
CO2	Students should be able to understand the Physical modeling methods and Various techniques	2	Em
CO3	Students should be able to study the various methods which is use in system simulation	2	S
CO4	Students should be able to understand the concept and techniques of system dynamics	2	s
CO5	Students should be able to understand the methods which is use to for the simulation of mechanical system	2	s

Course Name: Simulation Modeling and Analysis
Course Code:
ME4240

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to study the simulation software	2	Em
CO2	Students should be able to simulate the various heat transfer processes	3	S
CO3	Students should be able to analysis of various heat transfer instruments by using simulation software	4	S

Course Name: Research Methodology
Course Code: ME4307

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to Objectives of Research, Research Techniques, Hypothesis development	3	S,Em

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CO2	Students should be able to Internal and External Validity, Reliability concept in scales, Stability Measures.	2	S
CO3	Students should be able to Interviewing, Questionnaires, Probabilistic, Precision and Optimal sample size.	3	S
CO4	Students should be able to Data Analysis, Factor Analysis, Cluster Analysis, Statistical (SPSS) Software	2	S
CO5	Students should be able to written reports, Abstract, Synopsis, Experimental, Results and Conclusions	2	S,Em

Course Code: ME4340

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand and use the Basics Excel commands	3	S,Em
CO2	Students should be able to understand the Graphical presentation of data -Histogram, frequency polygon, pie-charts and bar diagrams	4	S
CO3	Students should be able to understand the SPSS, layout, menu and analyzing the data using different statistical techniques.	4	S

Course Name: Cryogenic Engineering
Course Code: ME4202

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand fundamentals of cryogenic engineering.	3	Em
CO2	Students should be able to understand the liquefaction cycles and its related terminologies	2	none
CO3	Students should be able to understand the separation storage and transportation of cryogenic liquids	3	Em
CO4	Students should be able to understand the different cryogenic refrigerants	2	S
CO5	Students should be able to understand the handling of cryogen and its operating principles.	2	S

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Course Name: Research ethics and IPR
Course Code: ME4212

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	To know about research ethics and its significance	2	S,Em
CO2	To know about Plagiarism and approaches for originality in reporting	2	S
CO3	To know about IPR	2	S
CO4	To know about patent rights	2	S
CO5	To know about new development in IPR	2	S,Em

Course Name **Engineering Physics Lab**
Course Code **PH3140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the processof performing the experiments on wavelength andfocal length practically.	3	Em
CO2	Students should be able to verify the theortical calculations with observed results in practical experiments.	3	S
CO3	Students should be able to Enhance the skills of using appratus for verification of different laws.	3	S

Course Name: Refrigeration Machinery
Course Code: ME4206

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand basic concepts and working of compressors.	3	S,Em
CO2	Students should be able to understand refrigeration system component	2	S,Em

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CO3	Students should be able to deeply understand various hydraunic system	3	S
CO4	Students should be able to understand ppliances and accessories	3	S
CO5	Students should be able to know about various system accessories and controls.	3	S,Em

Course Name: Numerical Solution of Partial Differential Equations
Course Code: ME4213

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand application of finite difference method in one dimension PDE	3	S,Em
CO2	Students should be able to apply and solve parabolic equations for different boundary conditions	3	S,Em
CO3	Students should be able to solve hyperbolic equations for various boundary conditions	3	S
CO4	Students should be able to solve elliptical equations for different boundary conditions	3	S
CO5	Students should be able to know about finite element method for solving problems	3	S,Em

Course Name **Computational Fluid Dynamics**
Course Code **ME4205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to develop an understanding for the major theories, approaches and methodologies used in CFD.	3	S,Em
CO2	Students should be able to analyse the partial differential equation	4	S,
CO3	Students should be able to analyse discrete structures.	4	S
CO4	Students should be able to numerically solve the governing equations for fluid flow problems	4	S
CO5	Students should be able to analyse fluid flow and also able to do its modeling.	3	S

Course Name **Design of Heat Exchangers**
Course Code **ME4210**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should able to develop good understanding of the intricacies of heat exchanger design.	2	S,Em
CO2	Students should learn about the flow and stresses in heat exchanger	2	None
CO3	Students should aware about different design aspacts of heat exchangers	2	Em
CO4	Students should gain knowledge of different heat exchanger in thermal power plant.	2	Em
CO5	Students should able to know the designing and optimization of heat excahnger	3	S

Course Name **Jet & Rocket Propulsion Systems**
Course Code **ME4207**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand working of various propulsion systems.	2	S,Em
CO2	Students should be able to understand the principles of jet propulsion and rocketry.	2	S
CO3	Students should be able to review the properties of mixture of gases and understand the solid propulsion system.	3	S
CO4	Students should be able to understand the liquid rocket propulsion system.	2	None
CO5	Students should be able to understand the ramjet propulsion system	2	none

Course Name **Gas Turbine and Compressors**
Course Code **ME4208**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Students should be able to develop Basic understanding of gas turbine and related working cycles	2	S,Em
CO2	Students should be able to understand designing concepts of gas turbines	3	S
CO3	Students should be able to understand velocity triangle and axial flow turbine	3	S
CO4	Students should be able to understand centrifugal compressor basics and their performance evaluation	3	S
CO5	Students should be able to understand the concept of degree of reaction for axial flow compressors.	2	S,Em

Course Name **New Venture Creation**
Course Code **ME4211**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand entrepreneurship and entrepreneurial process and its significance in economic development.	3	En
CO2	Develop an idea of the support structure and promotional agencies assisting ethical entrepreneurship. .	2	En
CO3	Identify entrepreneurial opportunities, support and resource requirements to launch a new venture within legal and formal frame work.	3	En
CO4	Develop a framework for technical, economic and financial feasibility.	2	En
CO5	Understand the stages of establishment, growth, barriers, and causes of sickness in industry to initiate appropriate strategies for operation, stabilization and growth.	2	En

Course Name **Alternative Fuels**
Course Code **ME4301**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should able to understand the basic concepts of IC engine	2	S,Em
CO2	Students should aware about the need of alternative fuel in different fields	2	S,Em
CO3	Students should able to understand and analyze the application of alcohol and biodiesel in IC engine	3	S

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CO4	Students should able to understand the application Hydrogen and biogas	2	None
CO5	Students should able to apply the basics of chemistry in the preparation of biodiesel	2	S

Course Name **Solar Energy Technology**
Course Code **ME4302**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to conceptual knowledge of the solar energy technology, economics and regulation related issues associated with solar power development and management.	2	Em
CO2	Students should be able to concentrating collector designs of solar energy technology, solar power plant; solar furnaces.	2	Em
CO3	Students should be able to solar heating and cooling system – of solar energy system.	2	S
CO4	Students should be able to solar cell physics variation of efficiency with band-; high efficiency cells, tandem structure of the solar.	2	S
CO5	Students should be able to develop a comprehensive technological understanding in solar pv system components.	2	S

Course Name **Modelling of IC Engine**
Course Code **ME4310**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will know about concepts and governing equations	3	S,Em
CO2	Student will know about heat release analysis and combustion models of CI engine	3	S
CO3	Student will know about reprocessing of nuclear fuel	2	S
CO4	Student will know about fuel spray behavior	2	S
CO5	Student will know about mathematical model of SI engine	3	S

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Course Name **Energy Storage Techniques**
Course Code **ME4303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should able to understand the energy storage systems	2	S,Em
CO2	Students should able to understand the working of battery storage systems	2	S
CO3	Students should able to understand the working of magnetic and electric storage systems	2	S
CO4	Students should able to understand the working of fuel cell and hydrogen storage systems	2	S
CO5	Students should able to understand the thermal storage systems	2	S,Em

Course Name **Energy Management in Thermal System**
Course Code **ME4305**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to the course is intended to introduce principles of energy auditing and to provide measures for energy conservation in thermal applications	2	S,Em
CO2	Students should be able to design suitable energy monitoring system to analyz and optimize the energy consumption in an organization.	3	S
CO3	Students should be able to improve the thermal efficieny by designing suitable systems for heat recovery and co-generation.	3	S
CO4	Students should be able to guide the employees of the organization about the need and the methods of energy conservation.	2	S
CO5	Students will be able to carry out the cost- benefit analysis of various investment alternatives for meeting the energy needs of the organization.	3	S,Em

Course Name **Air-Conditioning System Design**
Course Code **ME4309**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to estimate the solar radiation.	3	S
CO2	Students should be able to learn about the Solar Radiation fenestration, ventilation and infiltration.	2	S
CO3	Students should be able to learn about the Heat Transfer through building, fabric heat gain/loss.	3	S
CO4	Students should be able to sense about the Selection of Air Conditioning Systems	2	S
CO5	Students should be able to differentiate about the Transmission of Air in Air Conditioning Ducts	2	S,Em

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Bachelor of Technology in Civil

Program Name **Engineering**

Course Name Mathematics I

Course Code MA3102

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn the basic principles of multi-variable calculus with their proofs. They should be able to classify partial differential equations and transform them into canonical form. They will also understand how to extract information from partial derivative models in order to interpret reality	2	Emp
CO2	Students should be able to understand and learn how to find the area and volume of any region and solid body respectively by integral and also find the moments of inertia for a thin plate in plane	2	Emp, S
CO3	Students should be able to understand theorems related to directional derivative of gradient and reproduce its proof. They should be able to Explain the concept of a vector integration in a plane and in space.	2	s
CO4	Students should be able to know basic application problems described by second order linear differential equations with constant coefficients. They should be also able to understand and solve the applications associated with Laplace Transform.	2	S
CO5	Students should be able to solve the linear equations using matrix properties and Determine characteristic equation, Eigen values, eigenvectors and diagonalizable of a matrix.	1	None

Course Name **Human Values and Ethics**

Course Code **PS3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than

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CO1	Students should be able to understand the significance of value inputs in a classroom, distinguish between values and skills, understand the need, basic guidelines, content and process of value education, explore the meaning of happiness and prosperity and do a correct appraisal of the current scenario in the society.	2	Emp
CO2	Students should be able to distinguish between the Self and the Body, understand the meaning of Harmony in the Self the Co-existence of Self and Body.	2	S
CO3	Students should be able to understand the value of harmonious relationship based on trust, respect and other naturally acceptable feelings in human-human relationships and explore their role in ensuring a harmonious society.	2	S
CO4	Students should be able to understand the harmony in nature and existence, and work out their mutually fulfilling participation in the nature.	2	Ent
CO5	Students should be able to distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.	1	None

Course Name **Basics of Computer and C Programming**
Course Code **CS3103**

Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than**
CO1	Students should be able to approachthe programming tasks using techniques learned in Theory and writepseudo-codes based on the requirements of the problem	2	Emp
CO2	Students should be able to usethe comparisons and limitations of the various programming constructs and choosethe right one for the task in hand.	2	S
CO3	Students should be able to write the program based on numerical techniques learned and able to edit, compile, debug, correct, recompile and run it.	2	S
CO4	Develops the knowledge of different software on different Operating System Platform such as Linux/Windows (Open Source and Licensed) with understanding of different IDE	2	En

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CO5	Makes students gain a broad perspective about the uses of computers in engineering industry	1	None

Course Name **Basic Electrical and Electronics Engineering**
Course Code **EC3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the basic theorems used in simplifying the electrical circuits.	2	Emp
CO2	Students should be able to Know about the generation and utilization of three phase alternating quantities.	2	S
CO3	Students should be able to Know about single phase transformer and its various parameters.	2	s
CO4	Students should be able to understand the various components used in electronics like P-N junction and Zenerdioide	2	En
CO5	Students should be able to understand basics of digital electronics and various electrical measurement devices	1	None

Course Name Basics of Computer and C Programming Lab
Course Code CS3140

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to approachthe programming tasks using techniques learned in Theory and write pseudo-codes based on the requirements of the problem.	2	Em
CO2	Students should be able to usethe comparisons and limitations of the various programming constructs and choosethe right one for the task in hand.	2	S

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CO3	Students should be able to write the program based on numerical techniques learned and able to edit, compile, debug, correct, recompile and run it.	2	S

Course Name **Basic Electrical and Electronics Engineering lab**
Course Code **EC3140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to know about the basic concepts of the Kirchhoff's current and voltage laws and perform Thevenin's, Norton's, and superposition and maximum power transfer theorems.	2	Em
CO2	Students should be able to analyze and understand the characteristics of transistors and semiconductor diodes and analyze the half-wave and full-wave rectifier using silicon diode.	2	S
CO3	Students should be able to Learn the basic concepts of various logic gates.	2	S

Course Name **Engineering Graphics and Design**
Course Code **ME3142**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know about basic concepts of projection and To Draw the projection of points and lines located in different quadrants	2	Em
CO2	Students will be able to Draw the projection of plane surfaces in various positions	2	S
CO3	Students will be able to Draw the projection of solids in various positions	2	S
CO4	Students will be able to Draw sectional views of a given object	2	En
CO5	Students will be able to develop surfaces and draw orthographic view of given object	1	None

Course Name **Communication and Soft Skills-I**

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Course Code **VP3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	On the completion of course the Students will be able to write, understand, analyze and create sentences in professional language (English). Students' horizon will be expanded with the correct usage of Grammar in writing and speaking, and will be able to improvise their speaking ability.		
CO2	Students will be able to take part in daily routine conversation in English		
CO3	Students will be able to understand and partially be groomed in corporate etiquettes and culture		
CO4	This course will aid the students to learn words and form strong vocabulary, use them correctly in a sentence while speaking and writing. Moreover, understand their meaning in the text		
CO5	The Students will learn to use strategies to listen actively and able to distinguish more important ideas from less important ones. Implement them while participating in the discussions. Henceforth, It yields the improvement in understanding, analyzing, creating and implementing the learning into real world encounter, effectively.		

Course Name **Mathematics II**
Course Code **MA3202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand ordinary differential equations, with their solutions through constant coefficients. They will also learn about	2	Em

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CO2	Students should be able to understand the properties of Fourier series. And the relationship between Fourier series and linear time invariant system.	2	S
CO3	Students should be able to learn the basics of the theory of error and the approximation theory; the fundamental principles of mathematical modeling; the numerical methods for solving problems of algebra; and the methods of numerical integration and differentiation.	2	S
CO4	Students should be able to learn about Interpolation which is a useful mathematical and statistical tool used to estimate values between two points.	2	En
CO5	Students should be able to formulate and solve problems involving random variables and apply statistical methods for analyzing experimental data. They will also learn to analyze the complex function with reference to their analyticity, integration using Cauchy's integral and residue theorems. Taylor's and Laurent's series expansions of complex function will be also explored at the end of Unit.	1	None

Course Name **Engineering Physics**
Course Code **PH3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand special theory of relativity (STR), concepts linked with STR and radiation laws.	2	Em
CO2	Students should be able to understand interference, diffraction and able to connect it to a few engineering applications.	2	S
CO3	Students should be able to explain the phenomena of polarization in electromagnetic waves and their production, Detection and analysis. They will also understand the operation and working principle of laser.	2	S

CO4	Students should be able to understand electromagnetic theory using Maxwell's equations, and its uses in various engineering application. They will also understand the difference between diameter, para and ferromagnetic materials.	2	En
CO5	Students should be able to explain fundamentals of quantum mechanics and apply it to problems on bound states.	1	None

Course Name **Environmental Studies**
Course Code **CY3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	2	Em
CO2	Students should be able to understand the solutions related to environmental problems related with the renewable & non-renewable resources.	2	S
CO3	Students should be able to understand the importance of ecosystem and biodiversity and the method of conservation of biological diversity.	2	S
CO4	Students should be able to understand different components of the environment and their function and the effects pollution on environment and should be able to understand the concept of sustainable development.	2	En
CO5	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	1	None

Course Name **Fundamentals of Mechanical and Mechatronics Engineering**
Course Code **ME3103**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand application of the laws of thermodynamics to wide range of systems and aware about the basics of thermal engineering applications in IC engines and its working.	2	Em
CO2	Students should be able to know and apply the types of forces and concepts used to analyze force mechanisms	2	S
CO3	Students should be able to analyze and understand the Stress-strain diagrams and use of material.	2	S
CO4	Students should be able to understand the various machining processes	2	En
CO5	Students should be able to gain knowledge on the various engineering materials and their properties.	1	None

Course Name **Advance Computer Programming & Software**
Course Code **CS3207**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to Develop basic understanding of computers, the concept of algorithm, C programming and algorithmic/Programming thinking.	2	Em
CO2	Students should be able to use the C programming language to implement various algorithms, and develops the basic concepts and terminology of programming in general.	2	S
CO3	Students should be able to understand pointers, arrays, functions and macros that will be able to help them to design new problem solving approach in 'C'.	2	S
CO4	Students should be able to acquire the knowledge of different software's on different Operating System Platform such as Linux/Windows (Open Source and Licensed) with understanding of different IDE.	2	En

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CO5	Students should be able to gain a broad perspective about the uses of computers in engineering industry.	1	None

Course Name **Engineering Physics LAB**
Course Code **PH3140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the process of performing the experiments on wavelength and focal length practically.	2	Em
CO2	Students should be able to verify the theoretical calculations with observed results in practical experiments.	2	S
CO3	Students should be able to Enhance the skills of using apparatus for verification of different laws.	2	S

Course Name Advance Computer Programming & Software Lab
Course Code CS3245

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to develop Pointer, recursion, functions and array based programs in C.	2	Em
CO2	Students should be able to develop Dynamic memory allocation technique based programs and execute Command line Arguments in C.	2	S
CO3	Students should be able to execute C programs and Shell Commands in Unix Environment.	2	S

Course Name **Workshop Practice**
Course Code **ME3140**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to develop the ability to perform the various operations with the help of lathe machine and its tools	2	Em
CO2	Students will be able to develop the ability to perform the various operations using welding	2	S
CO3	Students will be able to develop the ability to perform the various operations using fitting tools	2	S
CO4	Students will be able to develop the ability to perform the various operations on wood using carpentry tools	2	En
CO5	Students will be able to develop the ability to perform the various operations using blacksmith tools	1	None

Course Name **Disaster Preparedness & Management**
Course Code **CE3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the basic concepts of disasters and its relationships with development.	2	Em
CO2	Students will be able to understand the approaches of Disaster Risk Reduction (DRR) and the relationship between vulnerability, disasters, disaster prevention and risk reduction.	2	S
CO3	Students will be able to understand the Medical and Psycho-Social Response to Disasters.	2	S
CO4	Students will be able to prevent and control Public Health consequences of Disasters	2	En
CO5	Students will have awareness of Disaster Risk Management institutional processes in India	1	None

Course Name **Indian Knowledge System**
Course Code **HU3201**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The students will be able to understand the Indian Knowledge System such as historical development, sources and scope.	2	S
CO2	The students will be able to understand the vocabulary system of Indian knowledge system.	2	S
CO3	The students will be able to understand and apply the philosophical foundations and methods of IKS.	3	N
CO4	The students will be able to execute the case studies based on the Indian knowledge system.	3	N
CO5	The students will be able to understand the influence of Indian Knowledge System on world.	2	S

Course Name **Communication and Soft Skills-II**
Course Code **VP3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	After the course the students will be able to write/understand and create sentences in English of all tenses, Students will heighten their awareness of correct usage of English grammar in writing and speaking and will be able to improve their speaking ability in English both in terms of fluency and comprehensibility.		
CO2	Students will be able to take part in daily routine conversation in English.		
CO3	Students will be able to understand and partially be groomed in corporate etiquettes and culture		
CO4	This course will aid the students to learn new vocabulary words, use them correctly in a sentence while speaking and writing, , and understand their meaning in the text		

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CO5	The students will learn to use strategies to listen actively, will be able to distinguish more important ideas from less important ones and will participate in the discussions.		

Course Name **Applied Hydraulics**
Course Code **CE3308**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the concept of fluids & their types, related equations & theorems, concepts of pumps & turbines.	4	S
CO2	Students should be able to understand the concept of steam line, streamline, path flow, vortices& acceleration related with fluid flows.	3	S
CO3	Students should be able to understand the concept of fluids manometer, hydrostatic forces on submerged bodies, various important equations & theorems.	4	En
CO4	Students should be able to understand the concept of fluids boundary layer theories, behavior of fluid flows in open channels.	4	En
CO5	Students should be able to understand the concept of fluids drag, skin frictions on various elements, lift & drag theories.	3	En

Course Name **Basics of Geology & Rock Mechanics**
Course Code **CE3310**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand basics of geology	2	S
CO2	Students will be able to understand minerals and rocks	2	S
CO3	Students will be able to understand Stratigraphy	2	S
CO4	Students should be able to understand Structural Geology	2	S

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CO5	Students will be able to understand Geological Investigations of various structures	2	S

Course Name **Material Testing & Evaluation**
Course Code **CE3312**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand properties and usage of engineering materials	2	S
CO2	Students should be able to learn property and usage of materials	2	S
CO3	Students should be able to understand properties and usage of standard testing and evaluation procedures	2	En
CO4	Students should be able to understand the usage of standard testing procedure.	2	En
CO5	Students should be able to perform the test of special materials	2	En

Course Name **Construction Engineering & Management**
Course Code **CE3313**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand The owners' perspective	2	S
CO2	Students should be able to understand the concept of Organizing for project management	2	S
CO3	Students should be able to understand the Design and construction process	2	S
CO4	Students should be able to understand about the Labour, material and equipment utilization	2	S
CO5	Students should be able to understand the concept of Cost estimation	2	S

Course Name **Strength of Materials**
Course Code **ME3308**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the resisting behavior of materials under loads in different loading condition like tension, compression etc. and applying the learnings though numerical problems	4	S
CO2	Students should be able to understand the behavior of beams under the action of shear force and bending moment and applying the learnings though numerical problems	4	S
CO3	Students should be able to understand the behavior of different machine elements such as shafts and springs under twisting load and applying the learnings though numerical problems	4	En
CO4	Students should be able to understand the behavior of beams under deflection and applying the learnings though numerical problems	4	En
CO5	Students should be able to understand the behavior of building elements such as columns and struts under different loading condition and applying the learnings though numerical problems	4	En

Course Name **Material Testing & Evaluation Lab**
Course Code **CE3345**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to perform test on brick	3	S
CO2	Students should be able to find the properties of cement	3	S
CO3	Students should be able to perform test on aggregate	3	En
CO4	Students should be able to perform test on steel	3	En
CO5	Students should be able to understand the properties of steel	2	En

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Course Name **Fluid Mechanics & Hydraulics Lab**
Course Code **CE3347**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the concept of Bernoulli's theorem & various losses in pipes.	3	S
CO2	Students should be able to understand the concept of Metacentric height of floating bodies & concepts of laminar & turbulent flows.	3	S
CO3	Students should be able to understand various coefficients of fluid flow.	3	En
CO4	Students should be able to understand the concept of Hydraulic jumps	3	En
CO5	Students should be able to conduct various test on fluids.	3	En

Course Name **Geology Lab**
Course Code **CE3349**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand about the properties of Igneous rock.	2	S
CO2	Students should be able to understand about the properties of Sedimentary rock.	2	S
CO3	Students should be able to understand about the properties of metamorphic rock.	2	S
CO4	Students should be able to analyze dip, dip direction and strike of given formations	3	S
CO5	Students should be able to understand the concept of Geological cross section and study of geological map.	2	S

Course Name **Strength of Materials Lab**
Course Code **ME3344**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to perform test to determine mechanical properties of soil	3	S
CO2	Students should be able to perform test to determine strength of soil	3	S
CO3	Students should be able to perform test to determine water content of soil sample	3	En
CO4	Students should be able to perform test to determine Index property of soil sample	3	En
CO5	Students should be able to perform test to determine Specific gravity of different soil sample	3	En

Course Name **United Nations Development Programme**
Course Code **HU3202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn about the Structure, Mission, Vision and Goals of UNDP	2	S
CO2	Equip the students with the knowledge of sustainable livelihoods for inclusive economic growth.	2	S
CO3	Students will learn and explore about the Human Development index to promote wellbeing at all ages.	2	S
CO4	To impart better education on SDGs goals focusing on Gender Equality and Provide Access to Justice to All and Build Effective.	3	N
CO5	Students will develop knowledge regarding environment sustainability.	3	N

Course Name **Value Added Program-III**
Course Code **VP3301**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	After the course the students will be able to write/understand and create sentences in English of all tenses, Students will heighten their awareness of correct usage of English grammar in writing and speaking and will be able to improve their speaking ability in English both in terms of fluency and comprehensibility.		
CO2	Students will be able to take part in daily routine conversation in English.		
CO3	Students will be able to understand and partially be groomed in corporate etiquettes and culture		
CO4	This course will aid the students to learn new vocabulary words, use them correctly in a sentence while speaking and writing, , and understand their meaning in the text		
CO5	The students will learn to use strategies to listen actively, will be able to distinguish more important ideas from less important ones and will participate in the discussions.		

Course Name **Structural Analysis**
Course Code **CE3403**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	To perform analysis of determinate structures.	4	S
CO2	To understand the fundamental concepts and theorems for analysis of structures.	4	S
CO3	To perform analysis of trusses and frames using various conventional methods.	4	En
CO4	To analyze typical structures such as three hinged arch and two hinged arches.	4	En
CO5	To draw influence line diagrams for beams, girders, frames and indeterminate structures.	4	En

Course Name **Environmental Engineering**
Course Code **CE3407**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the types of sewer and its design consideration	3	S
CO2	Students should be able to understand the concept of waste water treatment (Primary Treatment	3	S
CO3	Students should be able to understand the concept of waste water treatment (Secondary Treatment)	3	En
CO4	Students should be able to understand the disposal of waste water on land and water bodies	3	En
CO5	Students should be able to understand the collection, transportation and treatment of municipal solid waste	3	En

Course Name **Soil Mechanics**
Course Code **CE3408**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the properties of soil	3	S
CO2	Students should be able to understand the soil classification and permeability and seepage analysis	3	S
CO3	Students should be able to understand the compaction, consolidation and compressibility on soil	3	En
CO4	Students should be able to analyze the shear strength of soil	3	En
CO5	Students should be able to understand the concept of shear strength, slope of soil structure	3	En

Course Name **Basics of Ground Surveying**
Course Code **CE3409**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand basics of surveying	4	S
CO2	Students should be able to understand linear measurements	4	S
CO3	Students should be able to understand leveling methods in surveying	4	En
CO4	Students should be able to perform angular measurements	4	En
CO5	Students should be able to understand curves and its formations	3	En

Course Name **Structural Analysis Lab**
Course Code **CE3442**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to analysis beams BY MAXWELL theorem	4	S
CO2	Students should be able to analysis column	4	S
CO3	Students should be able to analysis truss	4	En
CO4	Students should be able to analysis of arch	4	En
CO5	student will able to analyses the elastic deformation of curved beam	4	En

Course Name **Structural Analysis Lab**
Course Code **CE3442**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to determine water quality parameters physically	4	S
CO2	Students should be able to determine the water quality parameters chemically	4	S

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CO3	Students should be able to analyze the water quality parameters biologically	4	En
CO4	Students should able to identify the factors adversely affecting the quality of water	4	En
CO5	Students should able to understand the methods adopted to treat the water	3	En

Course Name **Soil Mechanic Lab**
Course Code **CE3447**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to analyze the different properties of soil	4	S
CO2	Students should be able to analyze the types of the soil using different methods	4	S
CO3	Students should perform the proctor test	4	En
CO4	Students should be able to analyze the shear strength of soil	4	En
CO5	Students should perform the aggregate impact value test	4	En

Course Name **Basics Ground Surveying Lab**
Course Code **CE3448**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to perform leveling and can find horizontal and vertical angles using surveying instruments	4	S
CO2	Students should be able to plot traverse and contours.	4	S
CO3	Students should be able to understand leveling methods in surveying	4	En
CO4	Students should be able to perform angular measurements	4	En
CO5	Students should be able to understand curves and its formations	4	En

Course Name **PDP for Managers III**
Course Code **VP3401**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	This program lead to improve numerical skills of the students to do calculative part in short period of time.	4	S
CO2	Understanding of directions, blood relations, ranking, coding-decoding, calendar, clock enhance the analyzing power of students.	4	S
CO3	Understanding how a person efficiency impact on TIME AND WORK, And let to know the power of compounding in COMPUND INTEREST, also Know about the percentage calculation in various aspects.	4	En
CO4	Calculate Time Speed and Distance in various aspects, how Selling price and Cost price lead to profit or lose.	4	En
CO5	With the help of this student can qualify for various competitive exams (BANK, SSC, POLICE, DEFENCE, ETC.) This will be helpful for written exam of various companies.	4	En

Course Name **Advance Structural Analysis**
Course Code **CE3501**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to analyze the beam & portal frames using moment distribution method.	3	S
CO2	Students should be able to analyze the beam & portal frames using slope deflection method.	3	S
CO3	Students should be able to analyze the beam & trusses using flexible matrix method.	3	S
CO4	Students should be able to analyze the beam & trusses using stiffness matrix method.	3	S
CO5	Students should be able to analyze the beam & frames using plastic analyzes.	3	S

Course Name **Design of Steel Structures**
Course Code **CE3503**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The students will be able to understand the concept of designing of bolted and welded connections.	4	Em
CO2	The students will be able to analyze tension members and beams using the IS specifications.	3	Em
CO3	The students will be able to analyze compression member.	3	S
CO4	The students will be able to analyze columns under axial loads using IS specifications.	3	S
CO5	The students will be able to analyze roof truss and beam and column.	3	S

Course Name **Transportation Engineering**
Course Code **CE3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the fundamentals of transportation system.	2	S
CO2	Students should be able to analyze the traffic capacity.	3	S
CO3	Students should be able to understand the railway transportation system.	2	S
CO4	Students should be able to understand the railway track junctions and crossings.	2	S
CO5	Students should be able to understand the Airport & Harbors Engineering.	2	S

Course Name **Design of Reinforced Cement Concrete Structures**
Course Code **CE3508**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to design the portal frame	3	S
CO2	Students should be able to design the continuous beam	3	S
CO3	Students should be able to design the different types of water tank	3	S
CO4	Students should be able to design the combined footing and its type	3	S
CO5	Students should be able to design the retaining wall and its types	3	S

Course Name **Transportation Engineering Lab**
Course Code **CE-3542**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to perform various tests on aggregate.	3	S
CO2	Students should be able to perform various tests on bituminous material.	3	S
CO3	Students should able to determine the aggregate crushing value of coarse aggregate.	3	S
CO4	Students should able to determine find the Flash and fire point for the given bitumen sample.	3	S
CO5	Students should determination of Softening point of Bitumen and viscosity of bitumen binder..	3	S

Course Name **Advanced Structure Analysis Lab**
Course Code **CE3544**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to analysis beams BY MAXWELL theorem	3	Em
CO2	Students should be able to analysis column	3	Em
CO3	Students should be able to analysis truss	3	Em
CO4	Students should be able to analysis of arch	2	Em
CO5	student will able to analyses the elastic deformation of curved beam	2	Em

Course Name **Reasoning Ability**
Course Code **VP3501**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	This program lead to improve advance numerical skills of the students to do calculative part in short period of time.	3	Em
CO2	Understanding of advance question of directions, blood relations, ranking, coding-decoding, calendar, and clock enhance the analyzing power of students.	3	Em
CO3	Understanding how a person efficiency impact on TIME AND WORK, And let to know the power of compounding in COMPUND INTEREST, also Know about the percentage calculation in various aspects.	3	Em
CO4	Calculate advance problem of Time Speed and Distance in various aspects,, how Selling price and Cost price lead to profit or lose.	2	Em
CO5	With the help of this student can qualify for various competitive exams (BANK, SSC, POLICE, DEFENCE, ETC.) This will be helpful for written exam of various companies.	2	Em

Course Name **Advanced Design of Concrete Structures**
Course Code **CE3609**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to design the portal frame	3	S
CO2	Students should be able to design the continuous beam	3	S
CO3	Students should be able to design the different types of water tank	3	S
CO4	Students should be able to design the combined footing and its type	3	S
CO5	Students should be able to design the retaining wall and its types	3	S

Course Name **Water Resource Engineering**
Course Code **CE3610**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the basic concept of hydrology.	2	S
CO2	Students should be able to understand the concept of methods of irrigation.	2	S
CO3	Students should be able to understand the concept of reservoirs & dams.	2	S
CO4	Students should be able to understand the concept of canals, their importance.	2	S
CO5	Students should be able to understand the concept of ground water engineering.	2	S

Course Name **Geotechnical Engineering**
Course Code **CE3612**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Students should be able to understand the concept of soil exploration	1	S
CO2	Students should be able to analyze the earth pressure for retaining wall	3	S
CO3	Students should be able to understand the types of foundation	2	S
CO4	Students should be able to analyze the bearing capacity of foundation	3	S
CO5	Students should be able to understand the concept of well and machine foundation	2	S

Course Name **Geotechnical Engineering Lab**
Course Code **CE-3641**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to determine the different properties of soil using various tests	2	Em
CO2	Students should be able to explore the different types of soil	2	Em
CO3	Students should able to evaluate the water content-dry density relation using light Proctor Compaction Test	3	Em
CO4	Students should able to Perform Permeability Test	2	Em
CO5	Students should able to determine In Situ dry density of soils using Core Cutter Method and Sand Replacement Method.	2	Em

Course Name **Technical VAP I**
Course Code **CE3643**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will be able to apply the engineering knowledge to attain the problem-solving skills required during the placement drives.	2	Em
CO2	Student will be able to develop ability to face technical interviews.	2	Em

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CO3	Student will be able to know the types of technical questions asked by the companies in the placement drives.	2	Em
CO4	Students should be able to solve complex civil engineering problems.	3	Em
CO5	Students should be able to give answers of technical questions.	3	Em

Course Name **Water Resource Engineering Lab**
Course Code **CE3644**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand Measurement of Rainfall by recording & non – recording rain gauge.	2	S
CO2	Students should be able to determine mean rainfall of an area by Thiessen mean Polygon method, isohyetal method.	3	Em
CO3	Students should be able to determine meanings rogosity coefficient & velocity of a running of a stream in a canal by current meter and calculate the approximate discharge of the canal.	3	Em
CO4	Students should be able to design a regime channel by Lacey's theory for a given .pattern of crops and area to be irrigated.	3	Em
CO5	Students should be able To determine the yield of an open well by constant level pumping test.	2	Em

Course Name **Geomatics Engineering**
Course Code **CE3608**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand fundamentals of GPS.	2	S
CO2	Students should be able to understand types of GPS signals and its data.	2	S

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CO3	Students should be able to understand utility of GIS.	2	S
CO4	Students should be able to understand data acquisition.	2	S
CO5	Students should be able to understand applications of GPS & GIS.	2	S

Course Name **Building Construction Practice**
Course Code **CE3609**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the Properties & Testing of Materials	2	S
CO2	Students should be able to understand the Properties of Miscellaneous Materials	2	S
CO3	Students should able to understand the properties of Brick & Stone Masonry	2	S
CO4	Students should able to understand the concept of Foundations	2	S
CO5	Students should be able to understand the Thermal Insulation and Acoustic	2	S

Course Name **Construction Project Planning & Systems**
Course Code **CE3610**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand basics of Project Management	2	S
CO2	Students should be able to understand Project Planning Tools	2	S
CO3	Students should be able to understand the. Cost Analysis & Updating	2	S
CO4	Students should be able to understand the Risk analysis and Resource allocation	2	S
CO5	Students should be able to understand the Construction Equipment	2	S

Course Name **Construction Cost Analysis**
Course Code **CE3611**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand fundamentals of estimation.	2	S
CO2	Students should be able to understand the concept of Specification of Works	2	S
CO3	Students should be able to understand the Rate analysis	2	S
CO4	Students should be able to understand the concept of Public Works Account	2	S
CO5	Students should be able to understand applications of Valuation	2	S

Course Name **Health Safety & Environment Management**
Course Code **CE3701**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand respiration and skin effects.	2	Em
CO2	Students should be able to understand safety analysis during drilling.	2	S
CO3	Students should be able to evaluate management & impact of oil and gas.	2	S
CO4	Students should be able to determine remediation measure & prevention.	2	En
CO5	Students should be able to understand HSE regulation.	1	None

Course Name **Estimation and Costing**
Course Code **CE3702**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Student should be able to understand the importance of estimation and costing.	2	Em
CO2	Student should be able to analyze the estimates of different structures.	2	S
CO3	Student should be able to understand about the Tenders.	2	S
CO4	Student should be able to analyze the concept of Valuation.	2	En
CO5	Student should be able to understand the concept of Report Preparation	1	None

Course Name **Estimation lab**
Course Code **CE3741**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to estimate the quantity of structures	2	Em
CO2	Students should be able to evaluate the quantity	2	S
CO3	Students should be able to present reports	2	S
CO4	Students should be able to estimate the material quantity	2	En
CO5	Students should be able to done price analysis	1	None

Course Name **Bridge Engineering**
Course Code **CE3703**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to understand the types of bridge and its components.	2	Em
CO2	Student should be able to understand the concept of bridge loading standards.	2	S
CO3	Student should be able to analyze the design of Bridge Culvert, Tee Beam Bridge.	2	S
CO4	Student should be able to understand the concept of bearing and its classification.	2	En
CO5	Student should be able to understand the concept of foundation for Bridge Structure	1	None

Course Name **Earthquake Resistant Constructions**

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Course Code **CE3705**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to able to understand the introduction about the Earthquake.	2	Em
CO2	Student should be able to able to understand the concept of Earthquake Response of Structure.	2	S
CO3	Student should be able to able to understand the concept of Two degree and multi-degree freedom systems.	2	S
CO4	Student should be able to able to understand the concept of Seismic Analysis and Modeling.	2	En
CO5	Student should be able to able to analyze the concept of Earthquake Resistant Design	1	None

Course Name **Masonry Structures**
Course Code **CE3709**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to understand the concept of masonry units	2	S
CO2	Student should be able to understand the concept of strength and stability	2	S
CO3	Student should be able to understand the concept of permissible stresses	2	S
CO4	Student should be able to understand the DESIGN considerations	2	S
CO5	Student should be able to understand the concept of design of masonry walls	2	S

Course Name **Pre-stress Concrete**
Course Code **CE3710**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to understand the knowledge of Pre- stress Concrete	2	S
CO2	Student should be able to understand the concept of Methods and Systems of pre-stressing	2	S
CO3	Student should be able to analyze the Flexure	3	S
CO4	Student should be able to analyze the Composite Beam	3	S
CO5	Student should be able to analyze the Deflection	3	S

Course Name **System Engineering and Economics**
Course Code **CE3711**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to understand the basic knowledge about the Course.	2	S
CO2	Student should be able to understand the concept of Value Engineering	2	S
CO3	Student should be able to understand the concept of Cash Flow	2	S
CO4	Student should be able to understand the concept of Cost concept	2	S
CO5	Student should be able to understand the Engineering Economics	2	S

Course Name **Hydrology**
Course Code **CE3706**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Student should be able to understand the concept of precipitation.	2	Em
CO2	Student should be able to understand the concept of runoff.	2	S
CO3	Student should be able to understand the concept of flood and drought.	2	S
CO4	Student should be able to understand the concept of reservoirs.	2	En
CO5	Student should be able to understand the concept of groundwater and management	1	None

Course Name **Irrigation Engineering**
Course Code **CE3707**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to understand the concept of water crop requirement.	2	Em
CO2	Student should be able to understand the concept of hydrological cycle and method of Irrigation.	2	S
CO3	Student should be able to understand the concept of Canal and Tube Well Irrigation.	2	S
CO4	Student should be able to understand the concept of Dams, Weir, and Barrage, its components and methods of construction.	2	En
CO5	Student should be able to understand the necessity of aqueduct, crossing, pipes etc.	1	None

Course Name **Urban Hydrology and Hydraulics**
Course Code **CE3712**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to able to understand the importance of Urban Hydrology and Hydraulics	2	S
CO2	Student should be able to able to understand the concept of Ground water and well hydrology	2	S

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CO3	Student should be able to able to understand the concept of Distribution system, flow in bends of stream and their models	2	S
CO4	Student should be able to able to understand about the Canal head works	2	S
CO5	Student should be able to able to understand the use of Dams and spillway	2	S

Course Name **Open Channel Flow**
Course Code **CE3713**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to know the basic knowledge about the Course.	2	S
CO2	Students should be able to understand the concept of	2	S
CO3	Students should be able to understand the concept of Control Section	2	S
CO4	Students should be able to understand the concept of Gradually Varied Flow	2	S
CO5	Students should be able to understand the concept of Hydraulic Jump	2	S

Course Name **Hydraulic Modelling**
Course Code **CE3714**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to understand the concept of Hydrologic Modelling Overview	2	S
CO2	Student should be able to understand the concept of Inputs & Data Preprocessing – Temporal	2	S
CO3	Student should be able to understand the concept of Inputs & Data Preprocessing – Spatial.	2	S
CO4	Student should be able to understand the concept of. Model Operation & Application – Single Basin	2	S

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CO5	Student should be able to understand the concept of Model Operation & Application - Distributed Modelling	2	S

Course Name **Technical VAP II**
Course Code **CE3742**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to solve complex civil engineering problems.	2	Em
CO2	Students should be able to give answers of technical questions	2	S
CO3	Students should be able to learn to prepare a PowerPoint presentation on the training.	2	S
CO4	Students should be able to learn to prepare and submit a report on the training.	2	En
CO5	Students should learn the different concepts and ideas.	1	None

Course Name **Environmental Impact Assessment**
Course Code **CE3801**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to able to carry out scoping and screening of developmental projects for environmental and social assessments	2	Em
CO2	Student should be able to able to explain different methodologies for environmental impact prediction and assessment	2	S
CO3	Student should be able to able to plan environmental impact assessments and environmental management plans	2	S
CO4	Student should be able to able to evaluate environmental impact assessment reports	2	En
CO5	Student should be able to able to understand the different the case studies	1	None

Course Name **Groundwater Improvement Technology**
Course Code **CE3802**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to know the basic knowledge about the Course.	2	Em
CO2	Student should be able to analyze the ground water flow.	2	S
CO3	Student should be able to understand the investigations of surface and subsurface water.	2	S
CO4	Student should be able to understand the concept of artificial recharge.	2	En
CO5	Student should be able to know about the saline water intrusion.	1	None

Course Name **Water and air quality modeling**
Course Code **CE3811**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to able to understand the basic knowledge about the Course	2	Em
CO2	Student should be able to able to understand the Air Quality Modelling	2	S
CO3	Student should be able to able to understand the Water Quality Models	2	S
CO4	Student should be able to able to understand the Water Quality Management	2	En
CO5	Student should be able to able to understand the Legal Aspects of Water quality	2	S

Course Name **Solid and Hazardous Waste Management**
Course Code **CE3812**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Student should be able to understand the concept of Solid Waste	2	Em
CO2	Student should be able to understand the Engineering Systems for Solid Waste Management	2	S
CO3	Student should be able to understand the Engineering Systems for Resource and Energy Recovery	2	S
CO4	Student should be able understand the concept of Landfills	2	En
CO5	Student should be able to understand the concept of Hazardous waste Management	2	s

Course Name **Air and Noise Pollution and Control**
Course Code **CE3814**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand basic concepts of Air pollution, their causes, sources & effects on health.	2	Em
CO2	Students will be able to understand about Air pollution chemistry, meteorological aspects of air pollution dispersion	2	S
CO3	Students will be able to understand the concepts of. Ambient air quality and standards, air sampling and measurements	2	S
CO4	Students will be able to understand basic concepts of Control of gaseous contaminants:	2	En
CO5	Students will be able to understand basic knowledge of Noise pollution	2	S

Course Name **Sustainable Engineering & Technology**
Course Code **CE3815**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to understand the concept of Sustainability	2	Em
CO2	Student should be able to understand the concept of Pollution and carbon foot print	2	S

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CO3	Student should be able to understand the concept of Environment Impact Assessment	2	S
CO4	Student should be able to design the Green building	2	En
CO5	Student should be able to understand the concept of Green Engineering	2	S

Course Name **Advance Transportation Engineering**
Course Code **CE3804**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to understand the traffic engineering.	2	Em
CO2	Student should be able to forecast the future traffic and parking area.	2	S
CO3	Student should be able to understand about the airport engineering.	2	S
CO4	Student should be able to design the airport.	2	En
CO5	Student should be able to understand about the docks and harbor engineering.	2	S

Course Name **Pavement Materials**
Course Code **CE3816**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to understand the properties of aggregates	2	Em
CO2	Student should be able to analyze the different between bitumen and tar	2	S
CO3	Student should be able to design the bituminous mixes	2	S
CO4	Student should be able to understand the use of equipment in highway construction	2	En
CO5	Student should be able to understand the concept of cement concrete pavements	2	S

Course Name **Pavement Design**
Course Code **CE3817**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to understand the basic history of pavement.	2	Em
CO2	Student should be able to understand the materials used in construction of pavement	2	S
CO3	Student should be able to understand the Maintenance of pavement	2	S
CO4	Student should be able to design the Different models of Traffic	3	En
CO5	Student should be able to understand the Pavement management system	2	S

Course Name **Urban transportation planning**
Course Code **CE3818**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to understand basics of Urban Transportation planning	2	Em
CO2	Student should be able to analyze the Transportation survey	3	S
CO3	Student should be able to understand the Transportation models	2	S
CO4	Student should be able to analyze the Data collection and inventories	3	En
CO5	Student should be able to understand the concept of Traffic assignment	2	S

Course Name **Entrepreneurship Management in Civil Engineering**
Course Code **CE3820**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Students should be able to understand the concepts, needs, functions of entrepreneurship, Schemes of assistance agencies at National, State, District level: NSIC, NRDC, DC: MSME, SIDBI, NABARD.	2	Em
CO2	Students should be able to understand the concepts of planning & organizing the staff & their controlling.	2	S
CO3	Students should be able to understand the concepts of project reports, Common errors in project report preparations, Exercises on preparation of project report.	2	S
CO4	Students should be able to understand the concepts, need, qualities & functions of a leader, Manager Vs leader, Types of leadership, definitions and characteristics, Factors affecting motivation, Theories of motivation	2	En
CO5	Students should be able to understand the concepts of Human Resource Management & their functions & needs.	2	S

Course Name **Low Cost Housing**
Course Code **CE3821**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to understand the concept of housing scenario.	2	Em
CO2	Student should be able to understand the basic knowledge of land use and physical planning for housing.	2	S
CO3	Student should be able to understand the concept of Development and Adopt On Of Low Cost Housing Technology	2	S
CO4	Student should be able to understand the concept of Low Cost Infrastructure Services	2	En
CO5	Student should be able to understand the concept of Housing in Disaster Prone Areas	2	s

Course Name **Airport & Harbor Planning**
Course Code **CE3822**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to understand the basic knowledge about Airport.	2	Em
CO2	Student should be able to understand about the airport planning's.	2	S
CO3	Student should be able to design airport.	2	S
CO4	Student should be able to understand about the harbor planning's	2	En
CO5	Student should be able to understand the basic knowledge about docks.	2	s

Program Name **Master of Technology in Structural Engineering**

Course Name **Structural Analysis-A Matrix Approach**

Course Code **CE4101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to analyze the concept of Matrix Methods of Analysis	2	Em
CO2	Students will be able to analyze the Continuous Beams using Stiffness method and flexibility method.	2	S
CO3	Students will be able to analyze Two Dimensional Portal Frames with different end conditions- plotting of bending moment diagrams	2	S
CO4	Students will be able to analyze Two-Dimensional Pin jointed Trusses by stiffness and flexibility method.	2	En
CO5	Students will be able to analyze the concept of Matrix Methods of Analysis	1	None

Course Name **Advance Construction Techniques**

Course Code **CE4102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The students will be able to understand the importance of pile foundation, types of piles, testing of piles, causes of failures of piles.	2	Em
CO2	The students will be able to understand the concept of coffer dams, its design and selection criterion.	2	S
CO3	The students will be able to understand the various types of loads on caissons, its design feature, construction materials used.	2	S
CO4	The students will be able to understand the various methods to Control of Ground Water in Excavations.	2	En
	The students will be able to understand the		

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CO5	Planning and Construction of Earthquake	1	None

Course Name **Advanced Design of Concrete Structures**
Course Code **CE4103**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	To understand the design concept Continuous Beams and Curved Beams	2	Em
CO2	students will able to design of flat slab	2	S
CO3	student will able understand and design concept of bunker and silos	2	S
CO4	student will able to design the elevated water tank	2	En
CO5	student will understand and design the portal frames	1	None

Course Name **Bridge Design**
Course Code **CE4104**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The student will able to understand the introduction and investigation of bridge	2	Em
CO2	The Students will be able to analyzing various loads on bridge	2	S
CO3	The students will be able to design the Slab and T Beam	2	S
CO4	The students will be able to design long span bridge	2	En
CO5	The students will be able to understand the various type of bearing	1	None

Course Name **Finite Element Analysis**
Course Code **CE4105**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to understand the basic concept of beam, truss and frame structure	2	Em
CO2	Student will able to understand about the mess convergence for precise study	2	S
CO3	Student will able to understand the shape function related to analysis of practical concept	2	S
CO4	Student will able to understand about the energy and virtual work concept	2	En
CO5	Student analysis the problem related to the beam and truss	1	None

Course Name **Concept of Ductile Detailing**
Course Code **CE4106**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to understand the flexural detailing of ductile member	2	Em
CO2	Student will able to understand the column, beam column joint and detailing od shear wall	2	S
CO3	Student will able to understand the toughness and resilience of the RC structure	2	S
CO4	Student will able to understand the ductile detailing of structure under the dynamic loading	2	En
CO5	Student will able to analysis the filed problem related to the frame joint	1	None

Course Name **Construction Machinery and Equipments**
Course Code **CE4107**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand construction equipment	2	Em
CO2	Students should be able to understand construction equipment selection	2	S
CO3	Students should be able to understand types Excavating Equipment	2	S
CO4	Students should be able to understand Hauling and Conveying Equipment	2	En
CO5	Students should be able to understand Planning for Building Construction	1	None

Course Name **Advanced Solid Mechanics**
Course Code **CE4108**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/
CO1	Students should be able to understand the basic concept of vector and tensor analysis.	2	S
CO2	Students should be able to understand the concept of Stress tensor and transformation.	2	S
CO3	Students should be able to understand the concept of Isotropic stress deformation theory, Yield functions, and Work hardening and Flow rules.	2	S
CO4	Students should be able to understand the concept of Visco-elastic material, Stress strain relation, Various models, Creep and Relaxation.	2	S
CO5	Students should be able to analyze Thick-walled annular cylinder Courseed to uniform boundary	3	S

Course Name **Advanced Design of Steel Structures**
Course Code **CE4201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Student will able to design the beam and column under wind load.	2	Em
CO2	Student will able to design the connection	2	S
CO3	Student will able to design the tower	2	S
CO4	Student will able to understand the design of industrial building	2	En
CO5	Student will able to analysis the plastic theory	1	None

Course Name **Design of Pre-Stressed Concrete Structures**
Course Code **CE4202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	To understand the General Principles of Pre-stressing	2	Em
CO2	To analysis and Design of Tension Members	2	S
CO3	To perform analysis and Design of Compression Members and Losses of Prestress	2	S
CO4	To understand the concept of Composite Beams	2	En
CO5	To Analysis and design of prestressed members continuous beams	1	None

Course Name **RCC Design Lab**
Course Code **CE4240**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to understand the structural modelling and basic tools	2	Em
CO2	Student will able to analysis the structure against Earthquake load	2	S
CO3	Student will able to analysis the structure against wind load	2	S

Course Name **Design of Tall Buildings**
Course Code **CE4209**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	student will able to understand the Structural Systems And Design concept	2	Em
CO2	student will able to Analysis the structure to check there torsional instability	2	S
CO3	student will able to design of Chimneys	2	S
CO4	student will able to analysis and design of Cooling Towers	2	En
CO5	student will able to analysis and design of Transmission Towers	1	None

Course Name **Theory of Plates and Shells**
Course Code **CE4210**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to understand the plate theory	2	Em
CO2	Student will able to analysis the plate on the basis of Napier's and levy's theory	2	S
CO3	Student will able to analysis the circular plate	2	S
CO4	Student will able to understand the shell analysis	2	En
CO5	Student will able to analysis the member an	1	None

Course Name **Fire Resistance of Structures**
Course Code **CE4211**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to analysis the classification of building and its types of production process	2	Em
CO2	Student will able to design the fire resistance building	2	S
CO3	Student will able to understand the test for fire resistance structure	2	S
CO4	Student will able to design the fire resistant rcc and wooden structure	2	En
CO5	Student will able to analysis the fire-resistant column	1	None

Course Name **Safety of Structures**
Course Code **CE4212**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to understand the concept of structural safety	2	Em
CO2	Student will able to understand the statistic and probabilistic theory	2	S
CO3	Student will able to apply the probability distribution for resistance and load	2	S
CO4	Student will able to analysis the reliability of structure	2	En
CO5	of reliability	1	None

Course Name **Soil Structure Interaction**
Course Code **CE4213**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to understand the Soil-Foundation-Structure Interaction	2	Em
CO2	Student will able to understand Finite Beams on Elastic Foundations	2	S
CO3	Student will able to understand Plates on Elastic Foundations	2	S
CO4	Student will able to analysis the Oil Structure Interaction In Framed Structures	2	En
CO5	Student will able to understand the concept of Soil Pile Interaction	1	None

Course Name **Environment Impact Assessment**
Course Code **CE4214**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to able to carry out scoping and screening of developmental projects for environmental and social assessments	2	Em
CO2	Student should be able to able to explain different methodologies for environmental impact prediction and assessment	2	S
CO3	Student should be able to able to plan environmental impact assessments and environmental management plans	2	S
CO4	Student should be able to able to evaluate environmental impact assessment reports	2	En
CO5	Student should be able to able to understand the different the case studies	1	None

Course Name **Wind effect on structures**
Course Code **CE4215**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the basic concept of Nature of windstorm, Design wind speed.	2	S
CO2	Students should be able to understand the concept of Pressure & force coefficients flow around flat plates.	2	S
CO3	Students should be able to understand the concept of Along wind effects, Across wind effects and vortex shedding.	2	S
CO4	Students should be able to understand the concept of Basic force coefficients for bridges, Nature of dynamic response of long span bridges.	2	S
CO5	Students should be able to understand the concept of Flow simulation, Modeling, Flow	2	S

Course Name **Reliability based design**
Course Code **CE4216**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the basic concept of structural reliability and its role in civil engineering design.	2	S
CO2	Students should be able to analyze Events, random variables, Discrete and Continuous distributions, Functions of random variables and moments.	3	S
CO3	Students should be able to analyze Mean, Median, Mode, Higher moments, Empirical distribution, Sampling, Estimation theory and order statistics.	3	S
CO4	Students should be able to understand the basic concept of Methods of finding reliability, Weakest link structures, Single members; Several load conditions, Multi-member multi-load condition.	2	S

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CO5	Students should be able to analyze using Failure modes and effects analysis (FMEA), Criticality	3	S

Course Name **Foundation and Steel Design Lab**
Course Code **CE4340**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to understand the load acting on foundation	2	Em
CO2	Student will able to analysis the bearing capacity of footing	2	S
CO3	Student will able to Design Pedestals for shear	2	S

Course Name **Research Methodology**
Course Code **ME4307**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to understand the basic concept of research	2	Em
CO2	Student will able to understand Experimental Design	2	S
CO3	Student will able to understand Data Collection	2	S
CO4	Student will able to understand Multivariate Statistical Techniques	2	En
CO5	Student will able to understand Research Report	1	None

Course Name **Research Methodology Lab**
Course Code **ME4340**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to apply the basic formula on excel	2	Em
CO2	Student will able to use the tools of MS excel	2	S
CO3	Student will able to create presentation	2	S

Course Name **Advanced Foundation Engineering**
Course Code **CE4304**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the concept of soil exploration	2	Em
CO2	Students should be able to analyze the earth pressure for retaining wall	2	S
CO3	Students should be able to understand the types of foundation	2	S
CO4	Students should be able to analyze the bearing capacity of foundation	2	En
CO5	Students should be able to understand the concept of well and machine foundation	1	None

Course Name **Computer Application In Design**
Course Code **CE4305**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to understand the basic knowledge of modelling	2	Em
CO2	Student will able to understand Cad Software	2	S

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CO3	Student will able to perform Computer Aided Design	2	S
CO4	Student will able to understand the Entity Manipulation and Data Storage	2	En
CO5	Student will able to understand the Expanding Capability of CAD	1	None

Course Name **Advanced Concrete Technology**
Course Code **CE4306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to understand the Concrete Making Materials	2	Em
CO2	Student will able to understand the comprehensive Tests on Concrete	2	S
CO3	Student will able to Design mix of concrete	2	S
CO4	Student will able to understand Special Concrete	2	En
CO5	Student will able to understand Concreting Methods	1	None

Course Name **Plastic Analysis**
Course Code **CE4307**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to understand the basic concept of moment	2	Em
CO2	Student will able to Design of Continuous Beams	2	S
CO3	Student will able to Design secondary Problems	2	S
CO4	Student will able to Design Of Connections	2	En
CO5	Student will able to Design Of Steel Frames	1	None

Course Name **Statistical Methods and Algorithm**
Course Code **CE4314**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the basic concept of presentation of research proposal using statistical package.	2	S
CO2	Students should be able to analyze Appraisal of axiomatic approach of probability, Conditional probability, Baye's rule, Conditional distributions, and conditional expectations.	3	S
CO3	Students should be able to understand the basic concept ofOne Way and Two Way Classification: ANOVA for fixed effect model, ANOVA for Random Effect Model.	2	S
CO4	Students should be able to understand Design of Experiments and Multivariate Data Analysis.	3	S
CO5	Students should be able to understand Time Series and forecasting.	2	S

Course Name **Structural Material**
Course Code **CE4315**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the basic concept of Supplementary Cementing Materials Strength properties; Durability properties.	2	S
CO2	Students should be able to understand Types of concrete, Material selection and its properties.	2	S
CO3	Students should be able to understand Polymer Concrete Composites, Types of polymer concretes and their applications.	2	S
CO4	Students should be able to understand Fiber Reinforced Plastics (FRP), Types of FRP, their properties and effects on concrete elements under various loading conditions.	2	S

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CO5	Students should be able to understand Use of Waste Materials and By-products	2	S

Course Name **Plates and Shells**
Course Code **CE4316**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the basic concept of Pure Bending of Plates Slopes and curvatures, Relations between them.	2	S
CO2	Students should be able to understand the basic concept of Symmetrical Bending of Circular and Rectangular Plates.	3	S
CO3	Students should be able to understand Development of shell structures, Advantages and disadvantages, Forms of shells, Mathematical equations of various curves connected with shells,	3	S
CO4	Students should be able to understand the basic concept of Folded Plate Structures.	2	S
CO5	Students should be able to understand Various methods for analyzing grids for roofs and	2	S

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Program Nam **Bachelor of Computer Applications**

Course Name **C Programming**

Course Code **CA 3107**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	understand the concept of hardware , software, and programming languages- low level & high level and OOPs concept.	2	S
CO2	understand the fundamentals of C programming like data types, operator and its precedence, associativity formatted outputs etc.	2	S
CO3	understand and implement the concept of control flowand looping.	2	Emp
CO4	understand and implement the concept of functions and arrays.	3	Emp
CO5	understand and implement the concept of pointer structure and file handling and apply these for real worldproblems.	3	Em p

Course Name **Discrete Mathematics**

Course Code **CA 3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students should be able to understand the concepts of set along with proofs to prove equality in sets. Various operations on sets, Principle of inclusion and exclusion, and various properties of Relation.	2	S
CO2	Students should be able to understand propositions and then would be able to find out the validity of the argument.	2	Em p
CO3	Students should be able to get complete knowledge of number theory, induction and various operations on integers.	2	S
CO4	Students should be able to understand the concepts of Graphs, Trees and related theorems along with various related algorithms. They will also learn Relation concepts and properties	3	Em p

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CO5	Students should be able to solve the problems of Permutation, Probability and Combination. They will learn the concepts of counting theory and techniques.	2	Em p

Course Name **Human Values & Ethics**
Course Code **PS 3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students should be able to understand the significance of value inputs in a classroom, distinguish between values and skills, understand the need, basic guidelines, content and process of value education, explore the meaning of happiness and prosperity and do a correct appraisal of the current scenario in the society	2	S
CO2	Students should be able to Distinguish between the Self and the Body, understand the meaning ofHarmony in the Self the Co-existence of Self and Body.	2	S
CO3	Students should be able to understand the value of harmonious relationship based on trust, respect and other naturally acceptable feelings in human-human relationships and explore their role in ensuring a harmonious society.	3	Em p
CO4	Students should be able to understand the harmony in nature and existence, and work out their mutually fulfilling participation in the nature.	2	Em p
CO5	Students should be able to distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.	2	S

Course Name **Open source software and Linux**
Course Code **CA 3104**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to use open-source software like Libre office	2	S

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CO2	Students should be able to use various Linux command	2	Em p
CO3	Students should be able to use MS word software	2	S

Course Name **C Programming Lab**
Course Code **CA3144**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn a programming language.	2	S
CO2	Students should be able to learn problem solving techniques.	3	Em p
CO3	Students should be able to write programs in C and to solve the problems.	2	Em p

Course Name **Open Source Software and Linux Lab**
Course Code **CA3143**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to use open-source software like Libre office	2	S
CO2	Students should be able to use various Linux command	2	Em p
CO3	Students should be able to use MS word software	2	S

Course Name **Disaster Preparedness & Management**
Course Code **CE 3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the basic concepts of disasters and its relationships with development.	2	S
CO2	Understand the approaches of Disaster Risk Reduction (DRR) and the relationship between vulnerability, disasters, disaster prevention and risk reduction.	2	S

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CO3	Understand the Medical and Psycho-Social Response to Disasters.	2	S
CO4	Prevent and control Public Health consequences of Disasters.	2	S
CO5	Awareness of Disaster Risk Management institutional processes in India.	2	S

Course Name **Software Engineering**
Course Code **CA 3204**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand about Software Engineering and SDLC (Software development life cycle).	2	S
CO2	Understand about the SRS and Characteristics of SRS	2	S
CO3	Understand about various software designing techniques and implementation issues.	2	Em p
CO4	Understand about the different types of software testing techniques	3	Em p
CO5	Understand about the software maintenance	3	Em p

Course Name **Fundamentals of Data Structures**
Course Code **CA 3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to explain the data structures and its various types. Different operations to be	2	S
CO2	Students should be able to explain and implement stacks and queues and their various operations .	2	Em p
CO3	Students should be able to explain and implement trees and its types with their traversals.	3	Em p
CO4	Students should be able to explain and implement graphs ,trees and also various graph matrices and understand the concept of graph traversals.	3	Em p
CO5	Students should be able to analyze and study various search algorithms.	3	Em p

Course Name **Data Structures Using Advance C Lab**
Course Code **CA 3244**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about data structures like array, stack, queues and linked list.	2	Em p
CO2	Students should be able to Learn about how to insertion, deletion and traversing operations on data structures.	3	Em p
CO3	Students should be able to Learn about how to Compare various searching and sorting techniques.	3	S

Course Name **United Nations Development Program**
Course Code **HU 3202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about the Structure, Mission, Vision and Goals of UNDP	2	S
CO2	Equip the students with the knowledge of sustainable livelihoods for inclusive economic growth.	2	S
CO3	Students will learn and explore about the Human Development index to promote well being at all ages.	2	S
CO4	To impart better education on SDGs goals focusing on Gender Equality and Provide Access to Justice to All and Build Effective.	3	N
CO5	Students will develop knowledge regarding environment sustainability.	3	N

Course Name **Mathematics- II**
Course Code **MA 3209**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Execute fundamental mathematical proofs and ability to verify.	2	S
CO2	Apply basic counting techniques to solve combinatorial problems.	2	Emp

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CO3	Comprehend formal logical arguments and expression of mathematical properties formally via the formal language of propositional logic and predicate logic.	2	Emp
CO4	Analyse and manipulate basic mathematical objects such as sets, functions, and relations and will also be able to verify simple mathematical properties that these objects possess.	2	S
CO5	Formulate computer programs (e.g. recursive functions) using mathematical principle.	1	Emp

Course Name **Object Oriented Programming with Java**
Course Code **CA 3209**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Explain how Java provides support for principles of object oriented-programming and the Java	2	S
CO2	Development Environment explanation	2	Emp
CO3	Explain the Java basic constructs and control structures and Packages	2	Emp
CO4	Design and develop application for information storage and exchange using input/output and sockets.	2	S
CO5	Build applications that have an event-driven graphical user interface using the standard Java libraries.	1	Emp

Course Name **Communicative English**
Course Code **EG 3210**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Explain how Java provides support for principles of object oriented-programming and the Java	2	S
CO2	Development Environment explanation	2	Emp
CO3	Explain the Java basic constructs and control structures and Packages	2	Emp

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CO4	Design and develop application for information storage and exchange using input/output and sockets.	2	S
CO5	Build applications that have an event-driven graphical user interface using the standard Java libraries.	1	Emp

Course Name **Foundation Course-CAP (Mobile Application)**
Course Code **CA 3211**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Explain the different concepts needed for the proper functioning of a mobile device.	2	S
CO2	Identify different types of applications, the importance of mobile operating system and features of the same.	2	Emp
CO3	Develop Simple Mobile Application using App inventor	2	Emp

Course Name **Critical Thinking & Multi-Cultural Competencies.**
Course Code **CA 3213**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Recognize critical thinking as a process of identifying, analysing, evaluating, and constructing	2	S
CO2	reasoning in deciding what conclusions to draw	2	Emp
CO3	Demonstrate an increased ability to explain an issue or problem comprehensively	2	Emp
CO4	Illustrate an enhanced ability to employ evidence/information in conducting a comprehensive	2	S

Course Name **Title: Object Oriented Programming with Java Lab**
Course Code **CA 3247**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Explain how Java provides support for principles of object oriented-programming and the Java	2	S
CO2	Development Environment	2	Emp
CO3	Explain the Java basic constructs and control structures and Packages	2	Emp
CO4	Design and develop application for information storage and exchange using input/output and sockets.	2	S
CO5	Build applications that have an event-driven graphical user interface using the standard Java libraries.	1	Emp

Course Name **Disaster Preparedness & Management**
Course Code **CE 3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the basics of Object- Oriented programming. Learn the programming basics of C++.	2	S
CO2	Students should be able to understand the concept of Classes, Objects, Polymorphism, Inheritance using C++.	2	Emp
CO3	Students should be able to understand the fundamentals of Arrays and Strings using C++.	2	Emp
CO4	Students should be able to understand and implement the concept of Inheritance using C++.	3	S
CO5	Students should be able to apply the concept of pointer and virtual function in complex programming situations.	3	Emp

Course Name **Object Oriented Programming Using C++**
Course Code **CA3206**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the basics of Object- Oriented programming. Learn the programming basics of C++.	2	S
CO2	Students should be able to understand the concept of Classes, Objects, Polymorphism, Inheritance using C++.	2	Emp
CO3	Students should be able to understand the fundamentals of Arrays and Strings using C++.	2	Emp
CO4	Students should be able to understand and implement the concept of Inheritance using C++.	3	S
CO5	Students should be able to apply the concept of pointer and virtual function in complex programming situations.	3	Emp

Course Name **Object Oriented Programming Using C++ Lab**
Course Code **CA 3243**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to implement the concept of oops.	**2**	**Em p**
CO2	Student should be able to use class and object in c++.	**3**	**Em p**
CO3	Student should be able to test different strings for their comparision	**3**	**S**

Course Name **Hardware Maintenance Lab**
Course Code **CA 3242**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand about the different hardware components of an computer and troubleshooting of computer.	2	S
CO2	Able to install different types of operating system and application software.	2	S

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CO3	Understand about the SMPS, UPS , Motherboard etc.	2	S

Course Name **Relational Database Management**
Course Code **CA 3305**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand about the database, database management system and comparison between DBMS and file oriented.	2	S
CO2	Students should be able to understand and design about RDBMS, EF Codd rules and mapping of ER diagrams.	2	Emp
CO3	Student should be able understand about database normalization and its working with SQL	2	Emp
CO4	Students should be able to understand about object modelling and database designing.	2	S
CO5	Students should be able to understand about transactions processing and various concurrency control techniques.	2	Emp

Course Name **Operating System**
Course Code **CA 3304**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand about the operating system and types of operating system.	2	S
CO2	Understand the concepts of process management with various concurrency control techniques.	2	Em p
CO3	learn and implement the various CPU scheduling algo's and how dead lock occurs and how to preventit.	3	Em p
CO4	Understand the concepts and implementation of Memory management policies and virtual memory.	2	Em p
CO5	Understand the working of file management how data is stored into memory and how it will transmit fromone side to another in computer system.	2	S

Course Name **Relational Database Management Lab**

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Course Code **CA 3341**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	student should be able to write and execute DDL commands	3	S
CO2	student should be able to write and execute DML command	3	S
CO3	student should be able to write and execute DCL command	3	S

Course Name **Python Programming Lab**
Course Code **CA 3342**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	understand basic principles of Python programming language	2	S
CO2	Implement object oriented concepts	2	Em p
CO3	Implement database and GUI applications.	2	Em p

Course Name **Indian Knowledge System**
Course Code HU 3201

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will be able to understand the Indian Knowledge System such as historical development, sources and scope.	2	S
CO2	The students will be able to understand the vocabulary system of Indian knowledge system.	2	S
CO3	The students will be able to understand and apply the philosophical foundations and methods of IKS.	3	N
CO4	The students will be able to execute the case studies based on the Indian knowledge system.	3	N
CO5	The students will be able to understand the influence of Indian Knowledge System on world.	2	S

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Course Name **Web Programming -CAP-II**
Course Code **CA 3306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Create a well-designed and well-formed, professional Website utilizing the most current standards and practices	2	Emp
CO2	Demonstrate knowledge in web technologies including HTML, XHTML, CSS, image-editing software, web authoring software, and client-side scripting	2	Ent
CO3	Create client-side scripts to add interactivity to Web pages	2	S
CO4	Analyze appropriate HTML, CSS, and JavaScript code from public repositories of open-source and free scripts that enhances the experience of site visitors.	3	Emp
CO5	Implement JavaScript code that works in all major browsers (including IE, Mozilla-based browsers such as Firefox, Opera, Konqueror, Safari, Chrome).	3	Emp

Course Name **Python Programming**
Course Code **CA 3307**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the core programming concepts of Python Programming Language.	2	S
CO2	Apply the Looping and condition statements in Python Programming Language	2	Emp
CO3	Analyze the different options in Data Management in Python Programming Language.	2	Emp
CO4	Evaluate the importance of data transformation and its need in Python Programming Language	2	S
CO5	Develop elementary to advanced statistical methods in Python Programming environment.	1	Emp

Course Name **Web Programming -CAP-II Lab**
Course Code **CA 3343**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Create a well-designed and well-formed, professional Web site utilizing the most current standards and practices	2	Emp
CO2	Demonstrate knowledge in web technologies including HTML, XHTML, CSS, image-editing software, web authoring software, and client-side scripting	2	Emp
CO3	Create client-side scripts to add interactivity to Web pages	2	Emp

Course Name **Programming in Java**
Course Code **CA 3301**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand the basics of Java, JDK, JVM, JRE and get to understand the OOPsconcepts.	2	S
CO2	Students should be able to create class, object, constructor, packages and polymorphism.	2	Em p
CO3	Students should be able to understand and implement the collection, framework, map, vector.	3	Em p
CO4	Students should be able to understand and implement exception handling and file handling.	3	Em p
CO5	Students should be able to understand Applet, AWT and Swing Programming.	2	S

Course Name **Digital Logic Fundamentals**
Course Code **CA 3303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to understand various Fundamental of Digital Electronics like number systems, inter conversion and binary codes etc.	2	S
CO2	Students should be able to understand the Binary arithmetic ,significance of complements of number, logic gates and NAND NOR implementation	2	Emp
CO3	Students should be able to understand the workingof logic family and their comparison on the basis of power consumption, noise margin , fan in, fan out.	2	Emp
CO4	Students should be able to understand Boolean algebra Laws, solve k-Map for simplification of Boolean functions and implementation of POS and SOP simplification using logic gates.	2	S
CO5	Students should be able design various combinational circuits.	2	S

Course Name **Programming in Java Lab**
Course Code **CA 3340**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	student should be able to write and execute basic programs of java	3	S
CO2	student should be able to write and execute program of threads	3	S
CO3	student should be able to write and execute basic program of applets	3	S

Course Name **Computer Networks**
Course Code **CA 3401**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the fundamental concepts of computer networking. To master the concepts of protocols, network interfaces, and physical transmission media.	2	S

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CO2	Students should be able to understand the terminology and concepts of the OSI reference model and the TCP/IP reference model. Study data link layer concepts, design issues, and protocols.	2	S
CO3	Students should be able to understand topological and routing strategies for an IP based networking infrastructure.	2	Emp
CO4	Students should be able to understand the transport layer services and protocols and gain knowledge about connection establishment and termination.	2	Emp
CO5	Students should be able to understand the use of cryptography and network security.	2	Emp

Course Name **Computer Organization**
Course Code **CA 3402**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand about the fundamental organization of a computer system	2	S
CO2	Student should be able to understand about Processor Organization Aspects	2	S
CO3	Student should be able to understand about the Instruction flow and functionality of central processing unit.	2	S
CO4	Student should be able to understand about t Input- Output organization	2	S
CO5	The student should able to understand the memory organization components	2	S

Course Name **C# .Net**
Course Code **CA 3405**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should able to explain the web designing and life cycle concepts of ASP.Net	2	S
CO2	Students should able to implements GUI applications	3	Em p
CO3	Students should be able to implement the Master Page & Validation Controls programming with C#.	3	Em p

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CO4	Students should be able to understand Multimedia and Graphics application with C#.	3	Em p
CO5	Students should be able for designing and developing database with SQL Server 2008.	2	S

Course Name **Computer Network Lab**
Course Code **CA 3440**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	students should be able to Understand computer network basics, IP addressing.	2	S
CO2	students should be able to Acquire knowledge of using simulators for different connections.	2	S
CO3	students should be able to learn about framing techniques.	2	S

Course Name **C# .Net Lab**
Course Code **CA 3442**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Learn about Graphical User Interface concept and its different controls.	**2**	**S**
CO2	Students should be able to Understand the different Validation control and master page designing.	**2**	**S**
CO3	Students should be able to Learn the database connectivity in detail and concept of array and structure.	**2**	**S**

Course Name **Interactive Web Application Development**
Course Code **CA 3406**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understanding PHP Development Environment and code syntax.	2	Emp
CO2	Understanding different web related features.	2	Ent

CO3	Understanding advance concept OOPS, Database Handling and Ajax programming.	2	S
CO4	Applying Perl code including Control Statements, Arrays, Strings and I/O.	3	Emp
CO5	Applying advance programming concepts like Socket programming and CGI	4	Emp

Course Name **Android Application Development-CAP-III**
Course Code **CA 3407**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Explain Android development environment, Architecture and android components.	2	S
CO2	List and explain the different layouts, user interface elements.	2	Em p
CO3	Understand the android storage and data management techniques.	3	Em p

Course Name **Interactive Web Application Development Lab**
Course Code **CA 3443**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Create a well-designed and well-formed, professional Web site utilizing the most current standards and practices	2	Emp
CO2	Demonstrate knowledge in web technologies including HTML, XHTML, CSS, image-editing software, web authoring software, and client-side scripting	2	Emp
CO3	Create client-side scripts to add interactivity to Web pages	2	Emp

Course Name **Android Application Development-CAP Lab**
Course Code **CA 3444**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Explain Android development environment, Architecture and android components.	2	S

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CO2	List and explain the different layouts, user interface elements.	2	Em p
CO3	Understand the android storage and data management techniques.	3	Em p

Course Name **Web Technology**
Course Code **CA 3403**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the fundamentals of PHP.	2	S
CO2	Students should be able to understand various fundamentals of XML.	2	S
CO3	Students should be able to understand and implement the concept of Servlet with JDBC concept.	3	Emp
CO4	Students should be able to understand various fundamentals of JSP.	2	Emp
CO5	Students should be able to understand client side scripting concepts and its implementation.	2	Emp

Course Name **Web Technology Lab**
Course Code **CA 3441**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	students should be able to learn about web technology and gain the skills.	2	S
CO2	students should be able to gain the skills and project-based experience needed for entry into web application and development careers.	3	Emp
CO3	students should be able to develop a dynamic webpage.	3	Emp

Course Name **PHP and MYSQL Programming**
Course Code **CA 3501**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the concept of PHD, Decisions and Loop.	2	S
CO2	Students should be able to understand and implement the function from various perspectives in PHP.	2	Emp
CO3	Students should be able to understand the array and its implementation in PHP.	3	Emp
CO4	Students should be able to understand the concept of session, cookies and HTML forms and file directories.	2	S
CO5	Students should be able to understand and implement database connectivity with MySql and understand the concept ot exception handling.	3	Emp

Course Name **Mobile Technology**
Course Code **EE 3503**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the fundamentals of Basic Electronics and Mobile phone.	2	S
CO2	Students should be able to understand the hardware & materials of mobile handset.	2	S
CO3	Students should be able to Repair and Diagnose the general problems in Mobile Phone.	3	S
CO4	Students should be able to understand trouble shooting and jumpering techniques.	3	S
CO5	To understand the software application in mobile phone.	2	S

Course Name **MYSQL and PHP Programming Lab**
Course Code **CA3543**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Student should be able to understand of HTML, CSS &JavaScript. Also, able to create website using HTML and CSS & JavaScript.	2	Emp
CO2	Students should be able to change content of web page using Ajax.	3	Emp
CO3	Students should be able to connect to database and insert data in database.	3	Emp

Course Name **Lab on Mobile Technology**
Course Code **EE3547**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to identify different types of mobile cell phones & their components	2	Emp
CO2	Students should be able to use the correct hardware tools to repair mobile cell phones	2	S
CO3	Students should be able to use the disassembling and assembling a mobile cell phone	2	S

Course Name **iOS Application Development CAP-IV**
Course Code **CA3509**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand iOS App UI elements	2	Emp
CO2	Understand iOS App UI elements	2	Ent
CO3	Gain knowledge on how to publish Apps to the Apple App Store	2	S

Course Name **iOS Application Development CAP-IV Lab**
Course Code **CA3545**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Explain Xcode setup ios application Navigation	2	Emp
CO2	Understand iOS App UI elements	2	Emp
CO3	Gain knowledge on how to publish Apps to the Apple App Store	2	Emp

Course Name **Advanced Python Lab**
Course Code **CA3544**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Write, Test and Debug Python Programs	2	S
CO2	Students should be able to Implement Conditionals and Loops for Python Programs	3	S
CO3	Students should be able to Use functions and represent Compound data using Lists, Tuples and Dictionaries	3	Em p

Course Name **Intelligent Data Analytics**
Course Code **CA3601**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to identify Big Data and business Implications along with different data categorization and Multidimensional Data Model.	2	S
CO2	Students should be able to understand and analyze Data Analysis Techniques with Level of Measurement & Data Management and Indexing	2	S
CO3	Students should be able to learn and demonstrate various Basic Statististical Analysis Techniques.	3	S
CO4	Students should be able to learn and analyze Data Analysis Technique using Machine Learning.	3	S
CO5	In this students should be able to learn about HDFS Concepts and Interfacing with HDFS & Role ofPrescriptive Analytics	2	S

Course Name **Application Testing**
Course Code **CA3608**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	This course is designed to enable a clear understanding and knowledge of the foundations, techniques, and tools in the area of software testing and its practice in the industry.	2	S
CO2	The course will prepare students to be leaders in software testing. Whether you are a developer or a tester, you must test software.	2	Emp
CO3	This course is a unique opportunity to learn strengths and weaknesses of a variety of software testing techniques	3	Emp

Course Name **Mathematics**
Course Code **MA3603**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To introduce the theoretical concepts of ordinary differential equations , matrix and statistics.	2	S
CO2	Students will able the understand the concepts of differentiation andintegration.	2	S
CO3	Students will able the understand the concepts of correlation andregression.	2	S
CO4	Students will able the understand the concepts of second orderdifferential equations with constant coefficient.	2	S
CO5	Students will able the understand the concepts of time series	2	S

Course Name **Multimedia and Animation**
Course Code **CA3503**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	understand the characteristics of different media; understand the representations of different multimedia data; understand different data formats .Also gain understanding about Computer Graphics.	2	S
CO2	gain understanding about photo-shop fundamentals using various tools and techniques.	2	S
CO3	use various adjustments And retouching tools and techniques to produce Special Effects such as Blurring , Sharpening , Layer Effects and Layer Styles.	2	Emp
CO4	the fundamental skills to produce basic animations and motion graphics using various tools and techniques.	2	Emp
CO5	gain understanding about Flash Software and its related components to produce advance animations and graphics.	3	Emp

Course Name **IT Infrastructure Management**
Course Code **CA3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	IT Infrastructure Management	2	Emp
CO2	Service Delivery Process	2	S
CO3	Service Support Process	2	S
CO4	Security Management	2	Emp
CO5	IT Ethics	2	Emp

Course Name **Data Compression Techniques & Algorithms**
Course Code **CA3507**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To gain a fundamental understanding of data compression methods for text, images, and video.	2	Emp
CO2	To understand related issues in the storage, access and use of large data sets.	2	Emp
CO3	To illustrate the concept of various algorithms for compressing text, audio, image and video.	2	S
CO4	Understand the structural basis for and performance metrics for commonly used lossy techniques.	2	Emp

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CO5	Understand conceptual basis for commonly used lossy compression techniques.	1	S

Course Name **Machine Learning Concepts**
Course Code **CA 3505**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	about Machine Learning	2	S
CO2	Machine Learning Algorithm	3	Em p
CO3	Evaluating Hypotheses	2	Em p
CO4	Computational Learning Theory	2	Em p
CO5	Genetic Algorithm	3	Em p

Course Name **Cloud Computing Foundation**
Course Code **CA3506**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	understand the use of Cloud Computing Concepts.	2	S
CO2	solve real world application development problemsusing Google app engine, GKE.	3	Emp
CO3	understand the need of Google cloud storage options	2	Emp
CO4	understand the use of networking and management tools.	2	Emp
CO5	machine learning applications over the cloud.	2	Emp

Course Name **IT Application Security & Privacy**
Course Code **CA3508**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand modern web application development, Web Security Issues	2	Emp
CO2	Apply design and security principles to new problems.	2	Emp

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CO3	Analyze and solve real world problems by exploring a web development framework as an implementationexample	2	S
CO4	Create dynamically generated web site complete withuser accounts	2	Emp
CO5	Create page level security, modular design using cssand themes and data driven content	1	Emp

Course Name **E-Commerce**
Course Code **CA3602**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	understand about Electronic Commerce	2	S
CO2	understand about Electronic Commerce strategies	2	S
CO3	understand about Reference Models	2	Emp
CO4	understand about Electronic Market	2	Emp
CO5	understand about Electronic Business	2	Emp

Course Name **Cryptography and Network Security**
Course Code **CA3603**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about the Cryptography & Network security, along with different IT/cyber laws to combat cyber crime	2	Em p
CO2	Students should be able to understand and analyze how different cryptographic algorithms and hashing techniques secure data and ensure CIA triad of network security	2	Em p
CO3	Students should be able to understand about various forms of malicious virus threats over internet.	2	S
CO4	Students should be able to learn about firewalls and other intrusion detection techniques.	2	Em p
CO5	Students should be able to learn about Basics, settingof VPN configuration and concepts of exchanging keys, modifying security policy.	2	Em p

Course Name **Digital Image Processing & Analysis**
Course Code **CA3606**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students would be able to develop Mathematical background required for Machine learning architecture algorithmic/ Programming based on real life application using text and speech	2	Emp
CO2	Students would be able to develop the syntax and architecture of word and sentence architecture with its basiccopra of Natural Language	2	Emp..
CO3	Students would be able to develop model and parsing the textfor language modeling and limitations of these models also explored	2	S
CO4	Students would be able to apply applications of advanced NLP with Deep learning and machine learning frameworkare developed.	2	Ent
CO5	Students would be able to Find out the future direction and limitation of AI	1	S

Course Name **Introduction to Cyber Laws & Crime**
Course Code **CA 3604**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	understand about Computer security	2	S
CO2	understand about Cyber Law	2	Em p
CO3	understand about Cyber Crime	2	Em p
CO4	understand about Investigating Cybercrime	2	Em p
CO5	understand about Organizational and Human Security	2	S

Course Name **Introduction to Mobile Application Development.**
Course Code **CA3605**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn how to design and develop mobile apps for iphone, ipad and ipod as well as mobile devices types.	2	S
CO2	Students should be able to learn about basic knowledge of mobile application development in C# language and modern mobile operating systems	2	Em p
CO3	Students should be able to understand about data transmission standards	2	Em p
CO4	Students should be able to learn about systems for mobile application distribution	2	Em p
CO5	Students should be able to learn about mobile application development	3	Em p

Course Name **Introduction to Computer Vision**
Course Code **CA3607**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To introduce students the fundamentals of image formation; To introduce students the major ideas, methods,	2	Emp
CO2	To introduce students the major ideas, methods, and techniques of computer vision and pattern recognition;	2	Emp
CO3	To develop an appreciation for various issues in the design of computer vision and object recognition systems;	2	Emp
CO4	To provide the student with programming experience from implementing computer vision and object recognition applications.	2	Emp
CO5	The Students should be able to build image processing applications	2	Emp

Course Name **Cross Platform Application Development**
Course Code **CA3510**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To introduce students the fundamentals of image formation; To introduce students the major ideas, methods,	2	Emp
CO2	To introduce students the major ideas, methods, and techniques of computer vision and pattern recognition;	2	Emp
CO3	To develop an appreciation for various issues in the design of computer vision and object recognition systems;	2	Emp
CO4	To provide the student with programming experience from implementing computer vision and object recognition applications.	2	Emp
CO5	The Students should be able to build image processing applications	2	Emp

Course Name **JavaScript Frameworks**
Course Code **CA3511**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand about the fundamental organization of a computer system	2	S
CO2	Student should be able to understand about Processor Organization Aspects	2	S
CO3	Student should be able to understand about the Instruction flow and functionality of central processing unit.	2	S
CO4	Student should be able to understand about t Input- Output organization	2	S
CO5	The student should able to understand the memory organization components	2	S

Course Name **Cross Platform Application DevelopmentLab**
Course Code **CA3546**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to Write, Test and Debug Python Programs	2	S
CO2	Students should be able to Implement Conditionals and Loops for Python Programs	3	S
CO3	Students should be able to Use functions and represent Compound data using Lists, Tuples and Dictionaries	3	Em p

Course Name **JavaScript Frameworks Lab**
Course Code **CA3547**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Write, Test and Debug Python Programs	2	S
CO2	Students should be able to Implement Conditionals and Loops for Python Programs	3	S
CO3	Students should be able to Use functions and represent Compound data using Lists, Tuples and Dictionaries	3	Em p

Course Name **Web3.0**
Course Code **CA3609**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand about the fundamental organization of a computer system	2	S
CO2	Student should be able to understand about Processor Organization Aspects	2	S
CO3	Student should be able to understand about the Instruction flow and functionality of central processing unit.	2	S
CO4	Student should be able to understand about t Input- Output organization	2	S
CO5	The student should able to understand the memory organization components	2	S

Course Name **Advanced Android Application Development**
Course Code **CA3610**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Use camera and location api to build Android Apps	1	Emp
CO2	Understand services and receivers to build Android Service Apps	2	Emp
CO3	Implement threads and graphics to build Game kind of Android Apps	5	Emp
CO4	Implement third party api to build rich Android Apps	5	Emp
CO5	Use camera and location api to build Android Apps	1	Emp

Course Name **Web 3.0 Lab**
Course Code **CA3642**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Developing a solid understanding of the key concepts and principles of Web 3.0.	2	Emp
CO2	Gaining practical experience with Web 3.0 tools and frameworks, and the ability to create decentralized applications.	2	Emp
CO3	Analyzing and evaluating Web 3.0 applications and use cases in various industries.	2	Emp

Course Name **Advanced Android Application Development Lab**
Course Code **CA3643**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Developing a solid understanding of the key concepts and principles of Web 3.0.	2	Emp
CO2	Gaining practical experience with Web 3.0 tools and frameworks, and the ability to create decentralized applications.	2	Emp

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CO3	Analyzing and evaluating Web 3.0 applications and use cases in various industries.	2	Emp

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Program Nam **Master of Computer Applications**

Course Name **Artificial Intelligence and Expert Systems**

Course Code **CA4101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	understand the concepts of artificial intelligence. Students will also learn the various searching methods.	2	Emp
CO2	understand various types of knowledge representation techniques required in artificial intelligent machines.	2	S
CO3	understand Weak , and , Strong Slot Filler Structures like semantic networks , cd etc	2	S
CO4	understand about the various methods of reducing the search path in game playing.	2	En
CO5	understand about different types of learning methods and will also study about expert system and its working.	1	None

Linux Administration and Network

Course Name **Programming**

Course Code **CA4102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students should be able to make appropriate decisions during the configuration process to create a properly functioning Linux environment.	3	**s**
CO2	Students should be able to Use programs and utilities to administer a Linux machine.	3	**Emp**
CO3	Students should be able to Explain how a Linux server can be integrated within a multi-platform environment.	2	**Emp**
CO4	Students should be able to Analyze the need for security measures for a Linux environment.	2	**Emp**

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CO5	Students should be able to Identify the different uses and advantages of Linux in a business environment in order to participate in discussions regarding network servers and services.	2	**Emp**

Course Name **Programming In Java**
Course Code **CA4103**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students should be able to understand the use of OOPs concepts.	2	**s**
CO2	Students should be able to solve real world problems using OOP techniques.	3	**Emp**
CO3	Students should be able to develop and understand exception handling, multithreaded applications with synchronization.	3	**Emp**
CO4	Students should be able to design GUI based applications	3	**Emp**
CO5	Students should be able to understand the use of File I/O.	3	**Emp**

Course Name **Software Engineering**
Course Code **CA4104**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand the basic concepts of Software Engineering.	2	s
CO2	Student should be able to understand the requirements analysis and design	2	S
CO3	Student should be able to understand software testing strategies and tactics	2	Emp
CO4	Student should be able to understand about software project management, estimation and scheduling	3	Emp

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CO5	Student should be able to understand about software quality, change and risk management	3	Emp

Linux Administration and Network

Course Name **Programming Lab**

Course Code **CA4140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Make appropriate decisions during the configuration process to create a properly functioning Linux environment	2	S
CO2	Students should be able to Analyze the need for security measures for a Linux environment.	3	Emp
CO3	Students should be able to Demonstrate the role and responsibilities of a Linux system administrator.	3	Emp

Course Name **Programming in Java Lab**

Course Code **CA4141**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to use Object Oriented Programming concepts for problem solving.	3	Emp
CO2	Students should be able to Apply JDBC to provide a program level interface for communicating with database using java programming	3	Emp
CO3	Students should be able to Apply the garbage collection for saving the resources automatically	3	Emp

Course Name **Automata Theory**

Course Code **CA4201**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to explain basic models of computation, Introduce concepts in automata theory and theory of computation.	3	s
CO2	Student should be able to Identify different formal language classes and their relationships, to design grammars and automata (recognizers) for different language classes	3	S
CO3	Student should be able to Synthesize finite and pushdown automata with specific properties, Prove particular problems cannot be solved by finite or pushdown automata using the Pumping Lemma or the closure properties of regular and/or context-free languages	3	Emp
CO4	"Student should be able to design deterministic Turing machine for all inputs and all outputs, subdivide problem space based on input subdivision using constraints	2	Emp
CO5	Student should be able to Determine the decidability and intractability of computational problems, a fundamental understanding of core concepts relating to the theory of computation and computational models including decidability and intractability	2	Emp

Course Name **Advanced Java**
Course Code **CA4202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Interpret the need for advanced Java concepts like enumerations and collections in developing modular and efficient programs	2	s
CO2	Students should be able to Build client-server applications and TCP/IP socket programs	2	Emp

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CO3	Students should be able to Describe the working of string methods	2	Emp
CO4	Students should be able to Illustrate database access and details for managing information using the JDBC API	3	Emp
CO5	Students should be able to Describe how servlets fit into Java-based web application architecture	3	Emp

Course Name **Python Programming**
Course Code **CA4203**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Setting up the Python environment	2	S
CO2	Students should be able to understand the concept of Functions	3	S
CO3	Students should be able to understand the concepts of lists, dicts, sets and files	3	Emp
CO4	Students should be able to understand the concept of Data Preprocessing	2	Emp
CO5	Students should be able to understand the concept of Statistical modeling	3	Emp

Course Name **Advanced Java Lab**
Course Code **CA4240**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Explore Exception Handling	3	S
CO2	Manipulate Window Interfaces Using Swing Objects	3	S
CO3	write Programs with Graphics Objects	3	Emp

Course Name **Python Programming Lab**
Course Code **CA4241**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to To acquire programming skills in core Python. To acquire Object Oriented Skills in Python	2	Emp
CO2	Students should be able to To develop the skill of designing Graphical user Interfaces in Python	2	Emp
CO3	Students should be able to To develop the ability to write database applications in Python	2	Emp

Course Name **Data Visualization and Machine Learning Models**
Course Code **CA4301**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Design and create data visualizations	3	Emp
CO2	Students should be able to Conduct exploratory data analysis using visualization	3	Emp
CO3	Students should be able to Craft visual presentations of data for effective comm.	3	Emp
CO4	Students should be able to Apply data transformations such as aggregation and	3	Emp
CO5	Students should be able to understand the role of Machine Learning in data science	3	Emp

Course Name **PHP and MYSQL**
Course Code **CA4308**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to Understanding the basic concepts of PHP and its applications	2	s
CO2	Students should be able to Demonstrate various MySQL database queries.	3	s
CO3	Students should be able to Demonstrate backup and restore a MySQL database.	3	Emp
CO4	"Students should be able to Demonstrate the concepts of server-side webapplications.	3	Emp
CO5	Students should be able to Demonstrate the implementation of PHP into current HTML basedwebsites	3	Emp

Data Visualization and Machine Learning

Course Name **Models Lab**

Course Code **CA4350**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to apply Decision tree, Neural Networks and Bayesian classifier for determining accuracy using appropriate data sets.	3	Emp
CO2	Students should be able to implement k-nearest neighbor, Regression algorithm and SVM's using real life examples.	3	Emp
CO3	Students should be able to demonstrate working of Random Forest algorithm using suitable training and testing datasets.	3	Emp

Course Name **PHP and MYSQL Lab**

Course Code **CA4343**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Learn how to take a static website and turn it into a dynamic website run from a database using PHP and MySQL.	3	Emp

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CO2	Students should be able to Analyze the basic structure of a PHP web application and be able to install and maintain the web server, compile, and run a simple web application	3	Emp
CO3	Students should be able to List the major elements of the PHP & MySQL work and explain why PHP is good for web development	3	Emp

Course Name **R Programming**
Course Code **CA4401**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the basics of R programming.	2	S
CO2	Students should be able to gain the knowledge of Data structure in R Programming.	2	S
CO3	Students should be able to understand the functions and loops in the R programming.	2	Emp
CO4	Students should be able to understand about the working with data in R programming	2	Emp
CO5	Students should be able to Gain the knowledge about the string and dates in R programming.	2	Emp

Course Name **Virtual Reality System**
Course Code **CA4402**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the concept of Virtual Reality environment	2	s
CO2	student should be able to understand the use of Hardware technologies for 3rd user interfaces.	2	s
CO3	Student should be able to explain various software technologies used in virtual reality	3	Emp

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CO4	Student should be able to explain various 3D interaction techniques used in virtual reality	3	Emp
CO5	Student should be able to understand Advances in 3D user interfaces in virtual reality	3	Emp

Course Name **Database Administration**
Course Code **CA4105**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Describe the fundamental organization of a computer system	2	S
CO2	Students should be able to Explain addressing modes, instruction formats and program control statements	3	Emp
CO3	Students should be able to understand the architecture and functionality of central processing unit.	2	s
CO4	Students should be able to Simplify in a better way the Input- Output organization	3	Emp
CO5	student should be able to understand the various types of knowledge representation in data administration.	2	Emp

Course Name **Network Security and Cryptography**
Course Code **CA4106**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	learn about the Cryptography & Network security, along with different IT/cyber laws to combat cyber crime	2	s
CO2	understand and analyze how different cryptographic algorithms and hashing techniques secure data and ensure CIA triad of network security	2	S
CO3	understand about various forms of malicious virus threats over internet.	2	Emp

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CO4	learn about firewalls and other intrusion detection techniques.	2	Emp
CO5	learn about Basics, setting of VPN configuration and concepts of exchanging keys, modifying security policy.	2	Emp

Course Name **Introduction to Block Chain Technology**
Course Code **CA4204**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the concept of Distributed Database, File System, Digital Signature	3	S
CO2	Students should be able to understand the concept of Blockchain Network, Mining Mechanism, Distributed Consensus, Chain Policy	3	Emp
CO3	Students should be able to understand the concept of Nakamoto consensus,, Sybil Attack	3	S
CO4	Students should be able to understand the concept of Distributed Ledger, Bitcoin protocols	3	Emp
CO5	Students should be able to understand the concept of Stakeholders, Domain Name Service and future of Blockchain.	3	Emp

Course Name **Cyber Law and Crimes**
Course Code **CA4205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	understand about Computer security	2	s
CO2	understand about Cyber Law	2	s
CO3	understand about Cyber Crime	2	Emp
CO4	understand about Investigating Cybercrime	2	Emp
CO5	understand about Organizational and Human Security	2	Emp

Course Name **Digital Image Processing**
Course Code **CA4206**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Review the fundamental concepts of a digital image processing system.	2	s
CO2	Analyze images in the frequency domain using various transforms.	3	Emp
CO3	Evaluate the techniques for image enhancement and image restoration.	3	Emp
CO4	Categorize various compression techniques.	3	Emp
CO5	Interpret image segmentation and representation techniques.	3	Emp

Course Name **Android Applications Development**
Course Code **CA4207**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	understand the basics of Android platform and get to understand the activity and lifecycle.	2	S
CO2	design and create Layouts, Views like-Button, Toggle- Button, Radio-Button, Checkbox etc	2	Emp
CO3	understand file handling, managing data using SQLite, Data sharing with query string, projections.	2	Emp
CO4	understand messaging, networking and services.	2	Emp
CO5	understand location based services like Display map, zoom control, view and change, Marking, Geocoding etc.	2	Emp

Course Name **Deep Learning Concepts**
Course Code **CA4307**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to Define what is Neural Network and model a Neuron and Express both Artificial Intelligence and Neural Network	2	Emp
CO2	Students should be able to Analyze ANN learning, Error correction learning, Memory-based learning, Hebbian learning, Competitive learning and Boltzmann learning	3	Emp
CO3	Students should be able to Implement Simple perception, Perception learning algorithm, Modified Perception learning algorithm, and Adaptive linear combiner, Continuous perception, learning in continuous perception	3	Emp
CO4	Students should be able to Analyze the limitation of Single layer Perceptron and Develop MLP with 2 hidden layers, Develop Delta learning rule of the output layer and Multilayer feed forward neural network with continuous perceptions,	3	Emp
CO5	Students should be able to Design of another class of layered networks using deep learning principles.	3	Emp

Course Name **E-Commerce and M-Commerce**
Course Code **CA4309**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	understand about Electronic Commerce	2	s
CO2	understand about Electronic Commerce strategies	2	S
CO3	understand about Reference Models	2	Emp
CO4	understand about Electronic Market	2	Emp
CO5	understand about Electronic Business	2	Emp

Course Name **Software Process & Management**
Course Code **CA4312**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to Appreciate the engineering nature of software development. Describe key activities in software development and the role of modeling.	2	Emp
CO2	Students should be able to Learn how to capture software requirements and handle difficult situations in the course addresses elicitation, specification, and management of software system requirements	2	Emp
CO3	Students should be able to Explain key concepts in software development such as risk and quality; explain the basics of an object-oriented approach to software development. Describe a simple workflow for interacting with the published literature on software development.	2	S
CO4	Students should be able to Apply modern software testing processes in relation to software development and project management,Create test strategies and plans, design test cases, prioritize and execute them.	2	Emp
CO5	Students should be able to Study a body of knowledge relating to Software Engineering, Software reengineering, and maintenance; Understand the principles of large scale software systems, and the processes that are used to build them;	1	Emp

Course Name **Neural Networks**
Course Code **CA4311**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to remember and understand biological structure of neural networks.	2	S
CO2	Student will be able to understand learning algorithms for pattern classification.	3	Emp
CO3	Student will be able to apply pattern Association preliminaries.	2	Emp
CO4	Student will be able to analyze Adaptive resonance theory and neocognitron.	3	Emp

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CO5	Student will be able to understand storage security network.	3	Emp

Course Name **Cloud Computing**
Course Code **CA4310**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the use of Cloud Computing Concepts.	2	S
CO2	Students should be able to solve real world application development problems using Google app engine, GKE.	3	Emp
CO3	Students should be able to understand the need of Google cloud storage options.	2	S
CO4	Students should be able to understand the use of networking and management tools.	2	S
CO5	Students should be able to manage machine learning applications over the cloud.	3	Emp

Course Name **Modeling and Simulation**
Course Code **CA4313**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will understand the techniques of modeling in the context of hierarchy of knowledge about a system and	3	S
CO2	Students should be able develop the capability to apply the same to study systems through available software.	3	Emp
CO3	Students will learn different types of simulation techniques	2	S
CO4	Students should be able to understand the use of networking and management tools.	3	S
CO5	Students will learn to simulate the models for the purpose of optimum control by using software.	3	Emp

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Bachelor of Vocational Studies in

Program Nam **Logistics & Supply Chain Management**

Course Name **INTRODUCTION TO LOGISTICS MANAGEMENT**

Course Code **LS3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the meaning of logistics, types & core functions of logistics Process	2	Em
CO2	Students should be able to understand the logistics management and distribution network of logistics management.	2	Em
CO3	Students should be able to understand the feature and characteristics of SCM also the difference between Logistics & SCM.	2	Em
CO4	Students should be able to learn the sales and marketing of logistics also agreement preparation and Customer grievance handling method	2	Em
CO5	Students should be able to learn the role on logistics in E- Commerce industries, Risk & challenges in E- Commerce.	2	Em

Course Name **IT FOR LOGISTICS**

Course Code **LS3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students should be able to learn the fundamentals of computer and its parts also understand the basic software and computer hardware.	2	Em
CO2	Students should be able to understand and learn the memory and software requirements.	2	Em
CO3	Students should be able to understand the excel ,workbook and Printing worksheets.	2	Em
CO4	Students should be able to learn the Internet-concept, Concepts of intranets and extranets .	2	Em

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CO5	Students should be able to understand the ERP and Supply Chain Management and ERP products and markets	2	Em

Course Name **BUSINESS COMMUNICATION**
Course Code **LS3103**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students should be able to learn the verbal and non verbal communication and role of business communication.	2	Em
CO2	Students should be able to understand and learn about the Letters ,Memos and Group Communication.	2	Em
CO3	Students should be able to understand Agenda and Notice,group Disscusion.	2	Em
CO4	Students should be able to understand and learn Presentation Skills and Writing a Business Report.	2	Em
CO5	Students should be able to understand and learn the Internet and Multimedia and E mail.	2	Em

Course Name **TRANSPORTATION MANAGEMENT**
Course Code **LS3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the basic of Transportation Management Models & Types of booking.	2	Em
CO2	Students should be able to understand the Types of Rebooking, Documentation process and types of loading..	2	Em
CO3	Students should be able to understand train operation and air operation, air craft types.	3	Em
CO4	Students should be able to understand the ICD and Vendor Development & strategic sourcing.	2	Em
CO5	Students should be able to understand the Main types of road freight transport and Statutory Forms.	3	Em

Course Name **CUSTOMER RELATIONSHIP MANAGEMENT**

Course Code **LS3202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the CRM t	2	Em
CO2	Students should be able to learn the Custom	2	Em
CO3	Students should be able to learn the Custom	2	Em
CO4	Students should be able to learn the Custom	2	Em
CO5	Students should be able to learn the Coordi	2	Em

Course Name **ERP FOR LOGISTICS**
Course Code **LS3203**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand and learn concept of erp.	2	Em
CO2	Students should be able to understand and learn the history and evolution of erp.	3	Em
CO3	Students should be able to understand the erp products and markets.	3	Em
CO4	Students should be able to understand the erp concepts and uses in supply chain	2	Em
CO5	Students should be able to understand the uses of erp and its work.	2	Em

Course Name **TRANSHIPMENT MANAGEMENT**
Course Code **LS3301**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand transhipment or Cross docking , Importance & Activities of Cross dock center.	2	Em
CO2	Students should be able to understand and learn types of vehicles, implications of vehicle selection.	2	Em
CO3	Students should be able to understand documenting and Information Flow, invoicing & Information Flow.	2	Em

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CO4	Students should be able to understand geographical knowledge of India, route planning.	2	Em
CO5	Students should be able to understand role of network design in supply chain, Network design.	2	Em

Course Name **ORGANISATIONAL BEHAVIOUR**
Course Code **LS3302**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the OB; At	2	Em
CO2	Students should be able to learn the Percep	2	Em
CO3	Students should be able to learn the Motiva	2	Em
CO4	Students should be able to learn the leaders	2	Em
CO5	Students should be able to learn the Group	2	Em

Course Name **COMPUTER BASE REPORT MANAGEMENT SYSTEM**
Course Code **LS3303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand and learn the concepts the data base and its characteristics.	2	Em
CO2	Students should be able to understand the relational data structure	2	Em
CO3	Students should be able to understand the entity, attributes, relationships.	2	Em
CO4	Students should be able to understand the three levels of database architecture.	2	Em
CO5	Students should be able to understand the relational database design.	2	Em

Course Name **INVENTORY & MATERIAL MANAGEMENT**
Course Code **LS3401**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to understand special theory of relativity (STR), concepts linked with STR and radiation laws.	2	Em
CO2	Students should be able to understand interference, diffraction and able to connect it to a few engineering applications.	2	S
CO3	Students should be able to explain the phenomena of polarization in electromagnetic waves and their production, Detection and analysis. They will also understand the operation and working principle of laser.	2	S
CO4	Students should be able to understand electromagnetic theory using Maxwell's equations, and its uses in various engineering application. They will also understand the difference between diameter, para and ferromagnetic materials.	2	En
CO5	Students should be able to explain fundamentals of quantum mechanics and apply it to problems on bound states.	1	None

Course Name **ERP FOR WMS**
Course Code **LS3402**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the wms concept and uses in erp.	2	Em
CO2	Students should be able to understand and learn the work of wms and its charaterstics.	2	Em
CO3	Students should be able to understand the types of wms, uses with erp.	2	Em
CO4	Students should be able to understand the wms in erp.	2	Em
CO5	Students should be able to understand the key elements of wms.	2	Em

Course Name **MANAGEMENT INFORMATION SYSTEM IN LOGISTICS**
Course Code **LS3501**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to learn the meaning of Management Information System and Components of Management system.	2	Em
CO2	Students should be able to understand and learn Billing Generation System.	2	Em
CO3	Students should be able to understand the accounting and Ledger Account.	2	Em
CO4	Students should be able to understand the Credit Control Department, Fund recovery, Outstanding decrease	2	Em
CO5	Students should be able to understand the Export Management, Types of ships, Shipping route.	2	Em

Course Name **WAREHOUSE & CUSTOMER SUPPORT MANAGEMENT**
Course Code **LS3502**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the meaning of warehouse, Types of Warehouse.	2	Em
CO2	Students should be able to understand and learn warehouse management system, function of warehouse.	2	Em
CO3	Students should be able to understand Sop of Loading and Unloading material, SOP of Attaching Seal in vehicle.	2	Em
CO4	Students should be able to understand the the role of CRM, Types of CRM, Key cross functional CRM processes.	2	Em
CO5	Students should be able to understand the strategic frame work of CRM.	2	Em

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Program Nam **Bachelor of Business Administration**

Course Name **Business Communication – 1**

Course Code **BB3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Develop understanding of importance of Personality Development: Communication & Soft Skills.	2	Emp/S/Ent
CO2	Skill of analyzing and create strategy to behaviorally inculcate a presentable signature personality with proven practical methods	2	Emp/S/Ent
CO3	Evaluate the Skills to determine optimum level of Communication: LSRW	3	Emp/S/Ent
CO4	Develop and apply the skills of a charismaticprofessional personality in terms of Communication, Body Language & Soft Skills	3	Emp/S/Ent
CO5	Putting the trainees on the testing anvils withskill- application and create the desired results under pre- described benchmark & retrain (if needed)	3	Emp/S/Ent

Course Name **Principles of Management**

Course Code **BB3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the concept of “rational decision making” and contrast it with prospect theory, bounded rationality, heuristics, and robust decisions	2	Emp/S/Ent
CO2	To understand the concept of planning	2	Emp/S/Ent
CO3	The student will be able to understand the primary functions of management .	3	Emp/S/Ent
CO4	To create common organizational structures and their advantages and disadvantages.	3	Emp/S/Ent
CO5	To create common organizational structures and their advantages and disadvantages.	3	Emp/S/Ent

Course Name **Business Economics**

Course Code **BB3106**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	After course completion, the student willbe able to understand the importance of economics in business world.	2	Emp/S/ENT

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CO2	After course completion, the student willbe able to understand demand and supply and effect of these factors on productionand pricing.	2	Emp/S/ENT
CO3	After course completion, the student willbe able to differentiate different curve and will be able to implement strategiesaccordingly.	3	Emp/S/ENT
CO4	After course completion, the student willbe able to understand different types of market structures.	2	Emp/S/ENT
CO5	After course completion, the student willbe able to understand different theories of rent and its effect on economies at a large.	2	Emp/S/ENT

Course Name **Business Mathematics and Statistics**
Course Code **BB3107**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Learn to solve the problems based on unitary method	2	Emp/S/ENT
CO2	Learn to solve the problems on profit	2	Emp/S/ENT
CO3	Learn to solve the problems on dispersion	3	Emp/S/ENT
CO4	Learn to solve the problems based on correlation	2	Emp/S/ENT
CO5	Learn concepts and to solving the problems based on Introduction to time series	2	Emp/S/ENT

Course Name **Financial Accounting**
Course Code **BB3105**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understanding fundamentals of accounting principles and it's importance.	2	Ent/Emp/S
CO2	Learning the double entry system and its application.	2	Ent/Emp/S
CO3	Preperation of Final Account and understanding their utility.	3	Ent/Emp/S
CO4	Understand, Evaluate and Apply conceptof Depreciation in business plan.	3	Ent/Emp/S
CO5	Understand the concept of partnershipfirm.	2	Ent/Emp/S

Course Name **Marketing Management**
Course Code **BB3202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	After course completion, the student will be ableto understand the nature and importance of marketing	2	Ent/Emp/S
CO2	After course completion, the student will be ableto analyze and understand the term segmentation.	4	Ent/Emp/S
CO3	After course completion, the student will be able to analyze the process of PLC. To create differentmethods related to marketing like positioning, packaging, branding.	4	Ent/Emp/S
CO4	After course completion, the student will be ableto organize and understand the promotion mix and understand the different methods ofdistribution.	3	Ent/Emp/S
CO5	After course completion, the student will be ableto understand the term consumerism.	3	Ent/Emp/S

Course Name **Organizational Behavior**
Course Code **BB3204**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student will be able to demonstrate the applicability ofthe concept of organizational behavior to understand the Behavior of people in the organization	2	Ent/Emp/S
CO2	The student will be able to demonstrate the applicability ofanalyzing the complexities associated with management of Individual behavior in the organization	2	Ent/Emp/S
CO3	The student will be able to understanding the complexities associated with management of the group behavior in the Organization	3	Ent/Emp/S
CO4	The student will be able to demonstrate how the organizational behavior can integrate in understanding the motivation (why) behind behavior of people in theorganization.	3	Ent/Emp/S
CO5	The student will be able to demonstrate different leadership styles and how they can be used in an organization for effective and goal oriented task completion	3	Ent/Emp/S

Course Name **Management Information System**
Course Code **BB3206**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the role of information technology and systems	2	Ent/Emp/S
CO2	Illustrate the current issues of information technology and relate those issues to the firm	2	Ent/Emp/S

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CO3	Use the concepts and terminology related to information technology	3	Ent/Emp/S
CO4	Analyze how information technology impacts a firm business Problems and Interpret how to use information technology to solve.	3	Ent/Emp/S
CO5	Critically assess the impact of information systems in society.	3	Ent/Emp/S

Course Name **Business Communication – 2**
Course Code **BB3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	After course completion, the student will be able to learn and understand the meaning and components of communication	2	Emp
CO2	After course completion, the student will be able to provide an overview of Prerequisites to Communication skills.	2	Emp
CO3	After course completion, the student will be able to learn and understand of outline to effective Organizational Communication	2	Emp
CO4	After course completion, the student will be able to impart the correct practices of the strategies of Effective Business writing.	3	Emp
CO5	After course completion, the student will be able to learn about the different communication skills	3	Emp

Course Name **Business Law**
Course Code **BB3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the basic concept of business law. To understand the general principles of contract.	2	Ent/Emp/S
CO2	To understand the legal formalities of law of contact. To Extend the knowledge of special kind of contact.	2	Ent/Emp/S
CO3	To know the role and importance of Limited Liability Partnership. To understand the consumer protection law in India.	3	Ent/Emp/S
CO4	To provide a learning about the Negotiable instruments and their uses in Business operations.	3	Ent/Emp/S
CO5	To extend the knowledge of Foreign exchange lawand competition Act.	3	Ent/Emp/S

Course Name **Environmental Studies**
Course Code **CY3205**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	2	None
CO2	Students should be able to understand the solutions related to environmental problems related with the renewable & non1renewable resources.	2	S
CO3	Students should be able to understand the importance of ecosystem and biodiversity and the method of conservation of biological diversity.	2	S
CO4	Students should be able to understand different components of the environment and their function and the effects pollution on environment and should be able to understand the concept of sustainable development.	2	En
CO5	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	2	None

Course Name **United Nations Development Programme**
Course Code HU3202

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about the Structure, Mission, Vision and Goals of UNDP	2	S
CO2	Equip the students with the knowledge of sustainable livelihoods for inclusive economic growth.	2	S
CO3	Students will learn and explore about the Human Development index to promote well being at all ages.	2	S
CO4	To impart better education on SDGs goals focusing on Gender Equality and Provide Access to Justice to All and Build Effective.	3	N
CO5	Students will develop knowledge regarding environment sustainability.	3	N

Course Name **Foundation of AI, Data Science, BI & Data Analytics**
Course Code **BB3240**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	The students will be able to understand the concept of data science	2	S
CO2	The students will be able to apply their accumulated knowledge of data science processes for solving real world problems.	3	S
CO3	The students will be able to apply Machine Learning Concepts	3	S
CO4	The students will be able to to analyse AI and Data Analytics	4	N
CO5	Upon completion the students will be able to create data analytics	6	N

Course Name **Data Analysis using Python**
Course Code **BB3241**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand and use python data science libraries as a tool for data analytics	2	S
CO2	Students will be able to learn data structure and its functions	2	S
CO3	Students will be able to learn an efficient multidimensional array providing arithmetic operations and flexible broadcasting capabilities.	2	S
CO4	Understand the fundamentals of the Pandas library in Python and how it is used to handle data.	3	N
CO5	Learn the fundamentals of Python's Matplotlib library and its main features and create multiple plots in Matplotlib	3	N

Course Name **Production and Operations Management**
Course Code **BB3303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student will remember the Nature, scope and system and the approaches of the operation management	2	Ent/Emp/S
CO2	The student will remember and explain and analyze the detailed knowledge of Facility locations and the layout	3	Ent/Emp/S
CO3	The student will illustrate the classification, allocation of work study and production capacity control	5	Ent/Emp/S
CO4	The student will illustrate the various method of inventory and the material management	4	Ent/Emp/S
CO5	The student will evaluate the apply the purchase and the store management	4	Ent/Emp/S

Course Name **Human Resource Management**

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Course Code **BB3305**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand thebasic functions of HRM	2	Ent/Emp/S
CO2	Students will be able to know about thehuman resource planning and their impact on organisation	3	Ent/Emp/S
CO3	Students will able to know the applicationof career planning and methods of training	5	Ent/Emp/S
CO4	Students will be able to understand the methods of performance appraisal andtheir impact on employee	4	Ent/Emp/S
CO5	Students will be able to know the current situation of industrial relation andfunctioning of trade union	4	Ent/Emp/S

Course Name **Supply Chain Management**
Course Code **BB3306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand some basics concepts of Supply chain and transportation line	2	Ent/Emp/S
CO2	Identify the appropriate methods for manufacturing the products.	3	Ent/Emp/S
CO3	To develop the potential market for the new product	5	Ent/Emp/S
CO4	Forecast the demand for product and make inventoryplanning accordingly	4	Ent/Emp/S
CO5	Identify the need of service after sales.	4	Ent/Emp/S

Course Name **Indian Knowledge System**
Course Code **HU3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will be able to understand the Indian Knowledge System such as historical development, sources and scope.	2	S
CO2	The students will be able to understand the vocabulary system of Indian knowledge system.	2	S
CO3	The students will be able to understand and apply the philosophical foundations and methods of IKS.	3	N
CO4	The students will be able to execute the case studies based on the Indian knowledge system.	3	N

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CO5	The students will be able to understand the influence of Indian Knowledge System on world.	2	S

Course Name **E-Business**
Course Code **BB3310**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Able to learn and understand e- business and e commerce its historical background frame work and future	2	Ent/Emp/S
CO2	Able to understand the concept of e-business application	2	Ent/Emp/S
CO3	Able to examine electronic payment system, legal and security issues withE commerce	3	Ent/Emp/S
CO4	Able to apply the knowledge to make awebsite and able to select what the necessary requirement to make customer oriented website	3	Ent/Emp/S
CO5	Able to evaluate the barriers of doing e. business in India & further try to frame suitable strategies to overcomethe barriers	3	Ent/Emp/S

Course Name **Financial Management**
Course Code **BB3311**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand about the basics of financial management with bird`s eye view .	2	Ent/Emp/S
CO2	To understand and apply the tools oflong term decisions making.	3	Ent/Emp/S
CO3	To understand and apply in cost ofcapital, capital structureand leverages.	5	Ent/Emp/S
CO4	To understand about the various models of dividend policy	4	Ent/Emp/S
CO5	To understand and apply the differentsegments of working capital management.	4	Ent/Emp/S

Course Name **Financial Market & Institutions**
Course Code **BB3312**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student will remember the overviewof Indian financial system.	2	Ent/Emp/S
CO2	The student will remember and explain and analyze concepts and structure of money market.	3	Ent/Emp/S

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CO3	Student will illustrate the classification of capital market and its structure in primary market	5	Ent/Emp/S
CO4	The student will illustrate the various stock exchange and the operators in India.	4	Ent/Emp/S
CO5	The student will understand the financial institution and types and then they can analyze the different structures	4	Ent/Emp/S

Course Name **Marketing of Services**
Course Code **BB3308**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand some basics concepts andmeaning of marketing of services.	2	Ent/Emp/S
CO2	Understand different situations in which customer take decisions related to different products.	3	Ent/Emp/S
CO3	Identify the techniques through whichany company retain their customers.	5	Ent/Emp/S
CO4	To know the different segmentation types and make the position strong inmarket.	4	Ent/Emp/S
CO5	To understand the importance ofcustomer relationship.	4	Ent/Emp/S

Course Name **Search Engine Optimization**
Course Code **BB3307**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To develop a basic understanding among students about Search engine optimization and their working.	2	Ent/Emp/S
CO2	To develop a thorough understanding among students about working of SEO's, bots and spiders in a network.	3	Ent/Emp/S
CO3	This Course helps students to understand and analyze pattern and ranking system of websites by Google algorithm.	5	Ent/Emp/S
CO4	This course helps students to differentiate between traditional marketing pattern and E-marketing.	4	Ent/Emp/S
CO5	This course will develop a clear understanding among the students regarding practical application of SEO in the digital world.	4	Ent/Emp/S

Course Name **Training and Development**
Course Code **BB3309**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand basic overview and concept of training	2	Ent/Emp/S
CO2	To recognize and understand the various methods of job training	3	Ent/Emp/S
CO3	To understand the various needs for training. To apply how Training surveys are conducted. To understand the training needs assessment.	3	Ent/Emp/S
CO4	To analyze and understand how to assess and evaluate training effectiveness in an organization. To apply the various models of training	4	Ent/Emp/S
CO5	To evaluate emerging issues in Training and development system. To apply value-based management approaches in Training programmers.	3	Ent/Emp/S

Course Name **International Logistics Management**
Course Code **BB3313**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the concept and relevance of international logisticsmanagement.	2	Ent/Emp/S
CO2	Thestudentswillbeabletounderstandthe importantconceptsoflogisticsandtheiruasgeeffectivelyandeffici ently.	2	Ent/Emp/S
CO3	Thestudentswillbeabletoapplytheirknowledgeindev elopmentof generalstructureofshipping.	3	Ent/Emp/S
CO4	Thestudentswillbeabletoanalyzetheairtransportationoperation s,problemsandprospects.	4	Ent/Emp/S
CO5	The students after completion of the course will be able to analyzeand evaluate the supply chain management practices atinterantionallevel.	5	Ent/Emp/S

Course Name **Statistics & Computational Data Analysis**
Course Code **BB3340**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will be able to understand the concept of statistics	2	S

CO2	The students will be able to apply their accumulated knowledge of probability theories for solving real world problems.	3	S
CO3	The students will be able to apply point estimation Concepts	3	S
CO4	The students will be able to analyse and test hypothesis	4	N
CO5	Upon completion the students will be able to create data with the help of Bayesian statistics	6	N

Course Name **R Programming for Data Science & Data Analysis**
Course Code **BB3341**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will be able to understand the concept of R and how to get starts with the given language	2	S
CO2	The students will be able to apply their accumulated knowledge of basic object and expressions for solving real world problems.	3	S
CO3	The students will be able to apply point estimation Concepts	3	S
CO4	The students will be able to analyse and test hypothesis	4	N
CO5	Upon completion the students will be able to create data with the help of Bayesian statistics	6	N

Course Name **Research Methodology**
Course Code BB3403

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand some basics conceptsof research and its methodology	2	Ent/Emp/S
CO2	Identify appropriate researchdesigns depending upon the objectives of research.	3	Ent/Emp/S
CO3	To develop a detailed research Proposal and summer internshipprojects.	5	Ent/Emp/S
CO4	To know how to collect data andevaluate it using different statistical tests.	4	Ent/Emp/S
CO5	To develop a questionnaire andto identify which test should be applied to which data set.	4	Ent/Emp/S

Course Name **International Business**
Course Code **BB3404**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the overview, evolution anddifferent approaches of international business.	2	Ent/Emp/S
CO2	To understand and apply the differenttheories of international trade.	3	Ent/Emp/S
CO3	To understand the modes of internationalbusiness and analyze the working of international financial institutions..	5	Ent/Emp/S
CO4	To remember trade blocs and understand the business centers and analyze the benefits.	4	Ent/Emp/S
CO5	To understand about international production and logistics management andevaluation of international business.	4	Ent/Emp/S

Course Name **Business Analytics**
Course Code **BB3406**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To remember the data and understand the different sources of data and sampling theory	2	Ent/Emp/S
CO2	To understand, apply and analyse the Hypothesis and Measurement scales in primary research	3	Ent/Emp/S
CO3	To understand, apply and analyse the reliability, and validity analysis using SPSS.	5	Ent/Emp/S
CO4	To remember, understand the basic concept and analyse the exploratory factor analysis using SPSS	4	Ent/Emp/S
CO5	To understand the concept of correlation and apply in terms of measurement using SPSS	4	Ent/Emp/S

Course Name **Company Law**
Course Code **BB3405**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand basic overview of the companiesact 2013.	2	Ent/Emp/S
CO2	To recognize how to promote and incorporate the business and what are the legal formalities.	3	Ent/Emp/S
CO3	To know the role and importance of MOA and how the activity of company govern by AOA and MOA.	2	Ent/Emp/S
CO4	To provide a learning about the different types of company's prospectus and the charter of the company.	4	Ent/Emp/S

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CO5	To extend the knowledge of the company howthe meeting are conducted in the companies. To gain knowledge of shares and how the company wind up, what are the events of the winding up.	4	Ent/Emp/S

Course Name **Data Analytics and Visualization-Tools &Techniques**
Course Code **BB3440**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will be able to understand the concept and ways of data handling.	2	S
CO2	The students will be able to apply their accumulated knowledge of basic object and in DATAMANIPULATION USING FUNCTION	3	S
CO3	The students will be able to apply TABLEAUSOFTWARE Concepts while preparing business reports	3	S
CO4	The students will be able to analyse Data Strategy & Consumer behaviour Analytics	4	N
CO5	After completion the students will be able to create data with the help of analytics, regression and coorelation tools	6	N

Course Name **Consumer Behavior**
Course Code **BB3409**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand and analyze the behavior of Indian consumers and various disciplines involved in the study of consumer behaviour.	2	Ent/Emp/S
CO2	To understand and apply the various consumer behavior models in the study of consumer behaviour.	3	Ent/Emp/S
CO3	To evaluate the consumer learning processand consumer attitude formation.	5	Ent/Emp/S
CO4	To apply the consumer decision making process and analyze the influence of family and reference groups on consumer behaviour.	4	Ent/Emp/S
CO5	To understand the Industrial buying behaviorand apply the Industrial buying process.	4	Ent/Emp/S

Course Name **Financial Services**
Course Code **BB3407**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To enable students understand concepts ofFinancial Services, Elicit knowledge on Venture Capital Funds	2	Ent/Emp/S
CO2	To enable students to understand concepts ofCredit Rating Agencies, Acquaint with the Investing, Controlling and Regulating services	3	Ent/Emp/S
CO3	To facilitate students to analyze concepts ofCommercial Banking & Mechanism, Understand the Functioning of Banks,Financial Services and Banking System	5	Ent/Emp/S
CO4	To enable students analyze concepts of BillsDiscounting Mechanism	4	Ent/Emp/S
CO5	To enable students to understand the Mechanism of Merchant Banking, Acquaint with Legal procedure and Financial Aspects ofFactoring & Forfeiting and To Develop the ability to apply the techniques in decision making of Financial services	4	Ent/Emp/S

Course Name **Web designing and Development**
Course Code **BB3408**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand basic overview of the Web designing, development and Internet.	2	Ent/Emp/S
CO2	To understand the various methods, approaches of Web Development.	3	Ent/Emp/S
CO3	To understand the various tags, attributes used in HTML and apply to create a web page	5	Ent/Emp/S
CO4	To understand the various HTML tags, attributes and usedit with CSS and apply to create an attractive web page.	4	Ent/Emp/S
CO5	To understand the website optimization and overview of SEO.	4	Ent/Emp/S

Course Name **Performance Management**
Course Code **BB3410**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the meaning and basicsof performance management system.	2	Ent/Emp/S
CO2	To understand the process of performance management system.	3	Ent/Emp/S

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CO3	To understand the impact of individualand group behavior on performance. To understand relation between behavior and performance management.	5	Ent/Emp/S
CO4	To analyze the various performance evaluation methods. To evaluate performance management system. Tounderstand performance consulting.	4	Ent/Emp/S
CO5	To study the Application of value-based management approaches to performance management. impact of change in organization's structure	4	Ent/Emp/S

Course Name **Cross Cultural Business Management**
Course Code **BB3411**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will be able to understand globalization and role in cross-cultural context.	2	Ent/Emp/S
CO2	The students will be able to understand the important variable and dimensions of culture of various nations.	2	Ent/Emp/S
CO3	The students after completion of the course will be ableto apply their knowledge in entering into trade related negotiations at international level.	4	Ent/Emp/S
CO4	The students will be able to analyze the HRM & Cross- Cultural issues at interantional level.	4	Ent/Emp/S
CO5	The students after studying management styles followed by other nations, develop their own innovative styles of managing the trade affairs.	5	Ent/Emp/S

Course Name **Machine Learning for Business**
Course Code **BB3441**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will be able to understand the concept of machinelearning and related concepts	2	S
CO2	The students will be able to apply their accumulated knowledge of regression while taking decisions	3	S
CO3	The students will be able to apply Resampling Methods, Model Selection and Regularization for analyzing the complex data	3	S
CO4	The students will be able to analyse data with the help of Support Vector Machine	4	N
CO5	Upon completion the students will be able to analyse and evaluate data applying unsupervised learning tool	5	N

Course Name **Business Ethics**
Course Code **BB3501**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand and aware about concept of business ethics and importance of it into business environment	2	Ent/Emp/S
CO2	To understand and apply ethical concepts into different function of management.	3	Ent/Emp/S
CO3	To understand and apply Ethical concept in business in decision making.	2	Ent/Emp/S
CO4	To understand, apply principles of business ethics and also aware the students to different approaches of ethics in management.	3	Ent/Emp/S
CO5	To aware, understand and apply the principles of Corporate Social Responsibility and its relevant for business.	3	Ent/Emp/S

Course Name **PROJECT MANAGEMENT**
Course Code **BB3502**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand basic concepts of project planning & management	2	Ent/Emp/S
CO2	Identify project life cycle and various typesof projects	3	Ent/Emp/S
CO3	Students will understand parameters like technical analysis, ,market analysis, environmental analysis, social cost benefit analysis	2	Ent/Emp/S
CO4	Analysis of financial viability of a project.	3	Ent/Emp/S
CO5	Understand regarding monitorng and controlling activities in projects	3	Ent/Emp/S

Course Name **Digital Marketing**
Course Code **BB3507**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Explain the role and importance of digital marketing in a rapidly changingbusiness landscape	2	Ent/Emp/S
CO2	Discuss the key elements of a digital marketing strategy	3	Ent/Emp/S
CO3	Analyzing the various ways to optimize content for mobile, be it throughthe creation of mobile sites or apps.	5	Ent/Emp/S
CO4	Demonstrate practical skills of tools used in search engine marketing	4	Ent/Emp/S
CO5	Learn to develop email marketing campaign.	6	Ent/Emp/S

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Course Name **Marketing Communication and Advertising**
Course Code **BB3508**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will able to outline the nature of advertising and describe its environment	2	Ent/Emp/S
CO2	The students will able to analyze an Advertising Plan	3	Ent/Emp/S
CO3	To evaluate the behavioral factors that influence the effectiveness of Advertising media	5	Ent/Emp/S
CO4	To analyze and evaluate the cost effectiveness of various forms of media	4	Ent/Emp/S
CO5	To evaluate creative strategies in the light of given marketing objectives and strategies	5	Ent/Emp/S

Course Name Risk Management and Insurance
Course Code BB3503

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand and aware students about concept of risk anduncertainty also explain its types.	2	Ent/Emp/S
CO2	To understand, apply and analysis of risk management processand managerial aspect associated with it.	3	Ent/Emp/S
CO3	To understand and aware the principles of insurance, types ofinsurance and also importance of insurance in india.	2	Ent/Emp/S
CO4	To understand, apply and aware students regarding element ofinsurance contract along with other related regulations.	4	Ent/Emp/S
CO5	To understand and aware the students about concept of reinsurance, different type of reinsurance and reinsurance inIndian prospective.	4	Ent/Emp/S

Course Name **Working Capital Management**
Course Code **BB3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Acquire knowledge of Inventory Management, Receivables Management, Cash Management and Payables .	2	Ent/Emp/S
CO2	Skill to use the technology in Inventory Management in cost effective way.	3	Ent/Emp/S

CO3	Skill to evaluate liquidity risk of any enterprise.	5	Ent/Emp/S
CO4	Skill of analyzing Working Capital Management of any enterprise.	4	Ent/Emp/S
CO5	Skill to create Overall Working Capital Management strategy.	6	Ent/Emp/S

Course Name **Social Media Marketing and Analytics**
Course Code **BB3505**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	At the end of the course the students will be able to understand and apply the key concepts in social media metrics.	2	Ent/Emp/S
CO2	The student will be able to understand and apply socialmedia analytics tools	3	Ent/Emp/S
CO3	The students can create their web contents so smartly tohave more business for their organization.	5	Ent/Emp/S
CO4	At the end of the course the students will be able to frame social media marketing strategies which would be helpfulto them in future	4	Ent/Emp/S
CO5	The students can measure the growth of the business doneso far due to SMM tools and techniques.	6	Ent/Emp/S

Course Name **Mobile and E-Marketing**
Course Code **BB3506**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Know basic concept of Mobile Marketing towardsthe development of organizational goal.	2	Ent/Emp/S
CO2	Illustrate different components of e. marketing and their applications for the development of business.	3	Ent/Emp/S
CO3	Understand the concepts and methods of e. marketing and its use for enhancing revenues oforganization.	5	Ent/Emp/S
CO4	Understand role of mobile marketing in generating leads for the business organizations.	4	Ent/Emp/S
CO5	Understand the legal and ethical issues in e. marketing and the ways to overcome the given challenges.	6	Ent/Emp/S

Course Name **Human Resource Planning & Development**
Course Code **BB3510**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be able to Know human resource planning and role of human resource in the organization.	2	Ent/Emp/S
CO2	Students will be able to Illustrate different ways to strengthen the human resource planning.	3	Ent/Emp/S
CO3	Students will be able to use the process of recruitment in the industry.	3	Ent/Emp/S
CO4	Students will be able to analyze implications for employee and executive development	4	Ent/Emp/S
CO5	Students will be able to Implement the modern methods of performance appraisal	3	Ent/Emp/S

Course Name **Industrial Relations**
Course Code **BB3509**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should able to elaborate the concept ofIndustrial Relations.	2	Ent/Emp/S
CO2	The students should able to illustrate the role of tradeunion in the industrial setup.	3	Ent/Emp/S
CO3	Students should able to outline the important causes & impact of industrial disputes.	3	Ent/Emp/S
CO4	Students should able to elaborate Industrial Dispute settlement procedures.	4	Ent/Emp/S
CO5	Student should be able to summarize the important provisions of Wage Legislations, in reference to Payment of Wages Act 1936, Minimum Wages Act 1948 & Payment of Bonus Act 1965	3	Ent/Emp/S

Course Name **MANAGEMENT OF MULTINATIONAL CORPORATIONS**
Course Code **BB3511**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand and aware studentsprocess of Internationalization andRegionalTradeBlocks	2	Ent/Emp/S
CO2	To understand and aware the growth of MNC's in India and analyzing its impact on Indian Economy.	2	Ent/Emp/S
CO3	To understand and analyzing the international Organizational Structure and Parent and subsidiary relationship.	4	Ent/Emp/S
CO4	To understand, analyze and able todraftinternationalBusinessstrategy.	4	Ent/Emp/S
CO5	ToAnalyzeandevaluatebusiness policyin internationalmarket	5	Ent/Emp/S

Course Name **EXIM FINANCING AND DOCUMENTATION**
Course Code **BB3512**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	TounderstandandawarestudentsprocessofExport ImportDocumentation.	2	Ent/Emp/S
CO2	Tounderstandandawareandabletoapplythe exportprocedureforexportofgoodsandservices.	3	Ent/Emp/S
CO3	Tounderstandandawareandabletoapplytheexport procedureforimportofgoodsand services.	3	Ent/Emp/S
CO4	Studentsunderstandandabletotakeadvantageofdifferentgovernmentexportbasedincentivesschemes.	3	Ent/Emp/S
CO5	TounderstandandawareandabletoapplytheImport&exportfinancingproceduresanddocumentatio n.	3	Ent/Emp/S

Course Name **Risk & Fraud Analytics**
Course Code **BB3540**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To make students aware of the concept of risk and fraud	2	Ent/Emp/S
CO2	The students will apply their knowledge of risk and fraud in Fraud Data Analysis Process	3	Ent/Emp/S
CO3	The students after completion of the unit will be able to apply Data Analysis Tests	3	Ent/Emp/S
CO4	The students will be able to analyze the billings scheme	4	Ent/Emp/S
CO5	The students will beable to analyze the Payroll Fraud and Expense Reimbursement Fraud	4	Ent/Emp/S

Course Name **Supply Chain Analytics & HR Analytics**
Course Code **BB3541**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To make students aware of the concept of Supply Chain Analytics	2	Ent/Emp/S
CO2	To make students aware of the concept of Sales and Operation Analytics	2	Ent/Emp/S
CO3	The students after completion of the unit will be able to apply their knowledge in calculating Inventory and does Supply Analytics	3	Ent/Emp/S
CO4	The students will be able to analyze HR Analytics for taking quality HR decisions	4	Ent/Emp/S

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CO5	The students will beable to analyze the HR trends with reference to labor turnover, appraisal cost etc	4	Ent/Emp/S

Course Name **Business Policy and Strategy**
Course Code **BB3601**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Review the core areas of corporate andbusiness level strategy relevant to theinternationalhospitalityindustryincluding theprocess,contentandcontextofstrategy	2	Ent/Emp/S
CO2	Recognise the relationship between theglobal business environment and strategic decisions madebyinternationalhospitality organizations	3	Ent/Emp/S
CO3	Exercise judgement and skill in planning,design,andimplementingthecost- effectiveuse of resources when undertaking abusiness strategy .Analyse the relationship betweentheglobalbusiness environment and strategic decisions made byinternationalhospitalityorganisations.	5	Ent/Emp/S
CO4	Demonstrate an understanding of theimportance of in-depth analysis of both theorganisation and the external businessenvironment in assisting hospitalitymanagersduringtheformulationof strategy	4	Ent/Emp/S
CO5	Discuss business strategy clearly and professionally. Critically evaluate the role ofoperations in adding value and achievingsustainablecompetitive advantage inthe International hospitalitysector.	3	Ent/Emp/S

Course Name **Entrepreneurship Development**
Course Code **BB3602**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students would be able to analyze the role ofentrepreneurineconomicdevelopment	2	Ent/Emp/S
CO2	StudentswouldunderstandtheDNAofanentrepreneurand assesstheir strengthsand weaknessesfrom an entrepreneurialperspective.	2	Ent/Emp/S
CO3	Students would be able to create an entrepreneurialmind-setbylearningkeyskillssuchasdesign,personal selling,andcommunication.	3	Ent/Emp/S
CO4	Studentswouldbeableto evaluatetheentrepreneurialsupportinIndia	5	Ent/Emp/S

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CO5	Studentswouldbeabletodevelopawarenessaboutentrepreneurshipandsuccessfulentrepreneurs.	6	Ent/Emp/S

Course Name **Banking and Insurance**
Course Code **BB3603**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students would have knowledge of banking and insurancebesidesfundamentallegalknowledge,	2	Ent/Emp/S
CO2	Students would to have the ability to use basic theoreticalandpracticalknowledgegainedinthefieldinanadvancededucationlevel ofthesamefieldor atthesamelevel of anotherfield,	2	Ent/Emp/S
CO3	StudentswouldapplytheknowledgeofBanking,insuranceand accounting fundamentals in a cohesive and logicalpatterntosolvestructuredandunstructuredproblemsi n BankingandInsurance	3	Ent/Emp/S
CO4	Studentswouldunderstandthebusinessoperationsandmar ket condition in Insurance Companies and know theregulationsand complianceofBanking company	5	Ent/Emp/S
CO5	Studentswouldknowregardingvariouspolicyprocedures like lapse of policy ,surrender of policy, maturity of policy,settlementofpolicy.	6	Ent/Emp/S

Course Name **International Financial Management**
Course Code **BB3604**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Examine complex body ofknowledge relating toInternationalfinancial environment	2	Ent/Emp/S
CO2	Analyseforeignexchangeriska nd managethem	2	Ent/Emp/S
CO3	Analyse exchange ratedeterminationandroleofglobalfin.mkt	3	Ent/Emp/S
CO4	Applyprinciplesofinternational investmenttechniques	5	Ent/Emp/S
CO5	Understandthefactorsaffectinge xchangeratesand theinter linkagesamongthem	6	Ent/Emp/S

Course Name **Corporate Social Responsibility**
Course Code **BB3607**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the concepts of Business Responsibilities and its moral obligations.	2	Ent/Emp/S
CO2	Understand the role of the major institutions ofthecivilsocietyin CSR.	2	Ent/Emp/S
CO3	To be familiar with and apply the ethical issues in Business Environment.	3	Ent/Emp/S
CO4	To apply and analyze the corporate excellence. Also creating corporate mission statement, drafting code of ethics and developing organizational culture.	2	Ent/Emp/S
CO5	To understand, apply andanalyze theroleof CSR in the society.	3	Ent/Emp/S

Course Name **Sales and Distribution Management**
Course Code **BB3608**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the concept of sales management and the process of personal selling.	2	Ent/Emp/S
CO2	To apply the theories of personal selling in real-life sales encounters.	2	Ent/Emp/S
CO3	To apply the sales force management techniques and evaluate the sales performance of salesperson.	3	Ent/Emp/S
CO4	To analyze and evaluate various distribution channels and their use.	5	Ent/Emp/S
CO5	To analyze and evaluate inventory management and logistics management.	5	Ent/Emp/S

Course Name **Compensation Management**
Course Code **BB3610**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to know the concept of compensation management and their role in employee motivation.	2	Ent/Emp/S
CO2	Students will be able to investigate about the job evaluation and their impact on compensation management.	2	Ent/Emp/S
CO3	Students will be able to design the wages and salary structures with monetary and nonmonetary rewards system.	3	Ent/Emp/S

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CO4	Students will be able to apply the knowledge for development various compensation strategies.	3	Ent/Emp/S
CO5	Students will be able to extend the knowledge of executive compensation and recent trends of executive compensation.	4	Ent/Emp/S

Course Name **International Human Resource Management**
Course Code **BB3609**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will acquire an in-depth knowledge of specificIHRM-related theories, skills and practices; Student will beable to understand academic and professional data andinformation from different countries and internationalsources.	2	Ent/Emp/S
CO2	Student will understand human resource problems andapply appropriate solutions taking particular account ofspecific international, national and local contexts,institutions and cultures; Student would understand cross-national differences of culture and institutions affecthumanresourcemanagementofmultinationalfirms.	2	Ent/Emp/S
CO3	StudentswouldanalyzethedesignofHRMprocessesanda ctivities; Student will have a strong businessunderstanding and awareness linked to an HRMperspective(nationallyand internationally).	3	Ent/Emp/S
CO4	Students would understand Compare and contrast thedifferenttechniquesinvolvedintheperformanceapprai salprocess, for example, the giving and receiving of feedback;Student will be able to apply theappropriate policiesandpracticesinvolvedtheperformancedisciplineprocess.	5	Ent/Emp/S
CO5	Studentswouldlearnanalyzethenotionofpartnershipasa n employee relations strategy and the importance of theinterrelationshipprinciples,practices andprocesses International andnationalfirms.	5	Ent/Emp/S

Course Name **Content Marketing**
Course Code **BB3605**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	ToKnowandunderstandthebasicconceptofConte ntMarketing.	2	Ent/Emp/S
CO2	The students will be able to apply theirknowledgeincreatingthecontentprocess.	2	Ent/Emp/S

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CO3	Application of knowledge into development of acaseforcontentmarketing	3	Ent/Emp/S
CO4	The students will be able to develop content marketingtacticsforaccomplishmentoftargets.	5	Ent/Emp/S
CO5	The students will be able to apply their knowledgeincalculatingROIincontentmarketing.	6	Ent/Emp/S

Course Name **Digital Marketing and Laws**
Course Code **BB3606**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	ToKnowandunderstandthe concept of Digital Marketing andDigital marketing Laws.	2	Ent/Emp/S
CO2	TounderstandthebasicconceptofSo cial Media Marketing and itsrelevancefor thedevelopmentof business	2	Ent/Emp/S
CO3	To understand the basic concept ofissuescomesindigitaltransactions and business units overcome thesameviadigitallaws	3	Ent/Emp/S
CO4	To understand contemporary issuesincyberspaceanddevelopstrate giestotacklethem.	2	Ent/Emp/S
CO5	To apply knowhow of cyber securityinmaintainingandsecurint electronicrecords	3	Ent/Emp/S

Course Name **GLOBAL FINANCIAL MARKETS ANDINSTRUMENTS**
Course Code **BB3611**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Aftercompletionofthegivencoursethes tudentswillbeabletounderstand the global financial markets and important financialinstruments.	2	Ent/Emp/S
CO2	The students will be able to develop understanding of Euro-CurrencyMarket.	2	Ent/Emp/S
CO3	The students will be able to apply their knowledge while handlingtheglobalfinancialinstrumen tseffectively.	3	Ent/Emp/S
CO4	To understand, analyze the global capital markets for smoothtrade.	4	Ent/Emp/S
CO5	Tounderstanindand evaluatetheforeignportfolios forinvestments.	5	Ent/Emp/S

Course Name **FOREIGN EXCHANGE MANAGEMENT ANDCURRENCYDERIVATIVES**
Course Code **BB3612**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	After course completion, the student will be able to understandforeign exchange market with reference to how trading will bedone	2	Ent/Emp/S
CO2	Aftercoursecompletion,thestudentwillbeab letounderstandexchangeratesystemanditsre levanceinforeingtrade.	2	Ent/Emp/S
CO3	Aftercoursecompletion,thestudentwillbea bletoapplytheirknow-howinenteringintoforeignexchangetransa ctions.	3	Ent/Emp/S
CO4	After course completion, the student will be able to analyze theexchangerateexecutionsystem.	4	Ent/Emp/S
CO5	After course completion, the student will be able to evaluate thecurrencyderivatives asahedging mechanism.	5	Ent/Emp/S

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Program Name: **Master of Business Administration**

Course Name **Professional Communication I**

Course Code **MB4101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	● The course helps students understand the communication process, its benefits and challenges. Practice and perform professional written and oral communication are the main focus. This enables critical thinking, creativity of the students.	2	Em
CO2	This helps in applying the conceptual understanding of communication into everyday practice, works on students to improve their spoken English skills so that they can communicate effectively in various situations. It prepares the students in reading, listening, speaking and writing skills in English language.	2	S
CO3	This also helps to build self-confidence, enhance self-esteem and improve overall personality of the students. It focuses on grooming the students through sensitizing them about proper behavior, socially and professionally, in formal and informal circumstances.	3	S
CO4	Projecting the Right First, Impression, Enhancing the ability to handle casual and formal situations. Handling difficult situations with grace, style, and professionalism	3	En
CO5	Sharpening appropriate Business Communication tactics to meet ever changing needs of modern world. Soft skills such as body language, gesture, postures will be the core learning through this course.	3	En

Course Name **Information Technology Applications for Managers**

Course Code **MB4102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will learn about basic computer like generations, input devices, output devices, hardware & software.	2	S

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CO2	Student will able to understand Ms Word tools like editing etc.	3	Em
CO3	Student will learn the usage of Spread Sheet in MS-Excel and formulas in order to apply in real business	3	S
CO4	Students will learn to make effective presentations in Ms- Power point with animations etc.	3	En
CO5	Student will learn about professional communication through E-mails	3	En

Course Name **Principles and Practices of Management**
Course Code **MB4103**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Develop understanding of the concepts and theories of management.	2	En/Em/S
CO2	The students will be able to understand the concept of planning and decision making	2	En/Em/S
CO3	The students will be able to Learn and further create organization structure.	3	En/Em/S
CO4	To help students in analyzing circumstances and direct subordinates at work.	4	En/Em/S
CO5	Evaluate the outcome and apply control mechanism in the system to accomplish goal of the organization	5	En/Em/S

Course Name **Organisational Behaviour**
Course Code **MB4104**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students should able to elaborate the concept of Organizational Behavior.	2	S
CO2	The students should able to illustrate the concept of individual behavior.	3	En/Em/S
CO3	The students should able to illustrate the concept of interpersonal behavior.	4	Em/S
CO4	The students should able to illustrate the concept of group behavior	4	Em/S
CO5	Student should be able to summarize the concept of organizational process.	3	En/Em/S

Course Name **Marketing Management**

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Course Code **MB4105**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	The student will be able to understand the concept of marketing management and the factors affecting consumer behavior.	2	En/Em/S
CO2	The student will be able to apply the concept of segmentation, targeting and positioning.	3	En/Em/S
CO3	The student will be able to analyze the role of new product development and pricing strategies.	4	En/Em/S
CO4	The student will be able to evaluate the role of middle men and performance of promotional tools.	5	En/Em/S
CO5	The student will be able to understand the concept of digital marketing.	2	En/Em/S

Course Name **Statistics for Managers**
Course Code **MB4106**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand about the Statistics and gain the knowledge of data representation through graphs and tables.	2	En/Em/S
CO2	Students will be able to gain the knowledge of data analysis through different methods	3	En/Em/S
CO3	Students will be able to apply the concept of probability and gain the knowledge of Probability Distribution, Poisson distribution , Normal Distribution and their importance	3	En/Em/S
CO4	Student will be able to calculate and correlation and regression and evaluate the data	5	En/Em/S
CO5	Students will be able to do analysis on time series and index number basis	4	En/Em/S

Course Name **Financial Accounting**
Course Code **MB4107**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	To understand and aware students for accounting concept and practices of Business Entity	2	S
CO2	To understand and apply accounting Procedure and financial statements preparation process.	4	S
CO3	To understand and apply ratio analysis concept in business in decision making.	5	S
CO4	To understand, apply and analysis the principles of fund flow statement for decision making along with practical application.	4	S
CO5	To understand apply and analysis the principles of Cash flow statement for decision making along with practical application.	4	S

Course Name **Managerial Economics**
Course Code **MB4108**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to remember the concepts of micro economics and also able to understand the various micro economic principles to make effective economic decisions under conditions of risk and uncertainty.	2	En/Em/S
CO2	The students would be able to understand the law of demand & supply & their elasticity's , evaluate & analyze these concepts and apply them in various changing situations in industry . Students would be able to apply various techniques to forecast demand for better utilization of resources.	3	En/Em/S
CO3	The students would be able to understand the production concept and how the production output changes with the change in inputs and able to analyze the effect of cost to business and their relation to analyze the volatility in business World.	3	En/Em/S
CO4	The students would be able to understand the different market structure and their different equilibriums for industry as well as for consumers for the survival in the industry by the application of various pricing strategies	3	En/Em/S

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CO5	The students would be able to analyze the macroeconomic concepts & their relation to micro economic concept & how they affect the business & economy.	4	En/Em/S

Course Name **Human Resource Management**
Course Code **MB4109**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	To understand the concept of HRM and its relevance in an organization.	2	En/Em/S
CO2	To recognize and understand the human resource forecasting. To understand the logic of job design and job specification.	2	En/Em/S
CO3	To create the new methods of recruitment. To understand the interview patterns.	3	En/Em/S
CO4	To analyze and understand the different methods of pay band systems.	4	En/Em/S
CO5	To understand the concept of E-HRM and importance of HRM in Global Market.	2	En/Em/S

Course Name **Professional Communication-II**
Course Code **MB4201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	To demonstrate his/her ability to write error free while making an optimum use of correct Business Vocabulary & Grammar.	2	S/Em
CO2	To distinguish among various levels of organizational communication and communication barriers while developing an understanding of Communication as a process in an organization.	3	S/Em
CO3	To draft effective business correspondence with brevity and clarity	4	S/Em
CO4	To stimulate their Critical thinking by designing and developing clean and lucid writing skills	3	S/Em
CO5	To demonstrate his verbal and non-verbal communication ability through presentations	3	S/Em

Course Name **Legal Aspects of Business**
Course Code **MB4202**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand the basic concept of business law and understand the general principles of contact and extend the knowledge of special kind of contact.	2	En/Em/S
CO2	Students will be able to explain the provision of the Negotiable instruments and their uses in Business operations and importance of Limited Liability Partnership.	2	En/Em/S
CO3	Students will be able to understand the basic overview and use of the companies Act 2013 and recognize how to promote and incorporate the company and what are the legal formalities.	3	En/Em/S
CO4	Students will be able to know the provisions of sales of goods act apply in business.	2	En/Em/S
CO5	Students will be able to know the use and impact of Information technology law and competition Act on business.	3	En/Em/S

Course Name **Cost and Management Accounting**
Course Code **MB4203**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students would be able to get a clear picture of cost concept; role of management accounting in the business, students will be able to take a decision while solving the problems of Business.	2	En/Em/S
CO2	Students would understand about profit planning, absorption costing, marginal costing, Break Even Analysis, make or buy decisions, cost reduction and cost control.	3	En/Em/S
CO3	Students would analyse the motive behind preparing the various budgets, establishing a budgetary control system and its administration, Evaluating the real problems while preparing the budget in Business.	4	En/Em/S
CO4	Students would be able to determine standard cost and its types, determine total standard cost and variances and its applicability in real Business world.	5	En/Em/S

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CO5	Students would be able to determine various neo cost concepts for decision making and its applicability in real Business world, students would also be evaluate and design the plan for new business on the basis of Neo concept for decision making.	4	En/Em/S

Course Name **Operations Research**
Course Code **MB4204**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Understand the Collaborative project experiences involving both written and oral presentations. Courses with significant experiential learning components	2	En/Em/S
CO2	Will develop Proficiency with tools from optimization, including fundamental applications of those tools in industry and the public sector in contexts involving uncertainty and scarce or expensive resources	4	En/Em/S
CO3	Supply chain and manufacturing systems; data analysis; information engineering; financial engineering; or service systems.	4	En/Em/S
CO4	Analysis with mathematical and computational modeling of real decision-making problems, including the use of modeling tools and computational tools, as well as analytic skills to evaluate the problems	4	En/Em/S
CO5	Will gain Experience with identifying, accessing, evaluating, and interpreting information and data in support of assignments, projects, or research. Course experiences with large-scale datasets.	4	En/Em/S

Course Name **Financial Management**
Course Code **MB4205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Exemplify and determine the applicability of the concept of financial management to understand the managerial decisions	2	En/Em/S

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CO2	Determine the important factors considered while taking long term investment decisions in an organization.	3	En/Em/S
CO3	Analyzing and calculating the cost of capital, analyzing capital structure theories and concepts of leverage analysis	4	En/Em/S
CO4	Analyzing the various factors helpful in taking working capital decisions in organizations. Estimation of working capital requirement	4	En/Em/S
CO5	Evaluation of the different dividend policies implemented in different companies, Implications of Walter, Gordon and MM approach	5	En/Em/S

Course Name **Business Research Methods**
Course Code **MB4206**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students would be able to get Knowledge of concept / fundamentals for different types of research.	2	En/Em/S
CO2	Students would be able to formulate research problem and develop a sufficiently coherent research design.	3	En/Em/S
CO3	Analyzing relevant scaling & measurement techniques and should use appropriate sampling techniques.	4	En/Em/S
CO4	Students would be able to Synthesizing different techniques of coding, editing, tabulation including descriptive & inferential measures use in analysis the data.	4	En/Em/S
CO5	Students would be able to evaluate statistical analysis which includes various parametric test and non parametric test using SPSS and prepare report.	5	En/Em/S

Course Name **Operations and Supply Chain Management**
Course Code **MB4207**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand the concept of product design, facility location, facility layout and capacity planning.	2	En/Em/S

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CO2	Students will be able to do scheduling of design, method study, understanding purchasing and inventory management needed in an organization.	3	En/Em/S
CO3	Students will be able to do stores management and understand and apply modern production techniques needed in today's time.	3	En/Em/S
CO4	Analyzing the need and importance of Supply Chain management.	4	En/Em/S
CO5	Students will be able to do revenue management and integration the role of IT in Supply Chain.	4	En/Em/S

Course Name **Business Environment**
Course Code **MB4208**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand and get familiarize with the environment in which business operates.	2	En/Em/S
CO2	Students will be able to analyze the various techniques of environmental analysis.	4	En/Em/S
CO3	Students will be able to understand and analyze the impact of different government formulated policies on business.	4	En/Em/S
CO4	Students will be able to remember and understand the impact of socio-cultural, technological factors on business.	2	En/Em/S
CO5	Students will be able to analyze and evaluate different strategies and challenges faced by the organisations while getting global.	5	En/Em/S

Course Name **Entrepreneurship Development**
Course Code **MB4209**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Know basic concept of Entrepreneurship and the challenges faced by them while managing the enterprise.	2	En/Em/S
CO2	Able in estimating financial funds requirements and seeking financial aid given by government and other financial institutions in this regard.	3	En/Em/S
CO3	Analyze and evaluate the process of developing an entrepreneurial mind-set.	5	En/Em/S

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CO4	Able to analyze and develop a business plan and further evaluate its feasibility of devising further.	4	En/Em/S
CO5	Analyzing and evaluating the steps involved in launching a business and try to overcome the factors hindering business launch.	5	En/Em/S

Course Name **Project Management**
Course Code **MB4301**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	To enable students understand concepts of Project Management and their relevance.	***2***	Em/S/En
CO2	To enable students analyze concepts of Execution in different task of a project.	3	Em/S/En
CO3	To facilitate students to analyze concepts of key area like technical , marketing and environment.	4	Em/S/En
CO4	To facilitate students to analyze concepts of financial viability.	4	Em/S/En
CO5	To facilitate students to analyze concepts of project controls.	4	Em/S/En

Course Name **International Business**
Course Code **MB4302**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Describe the outcomes of globalizing and liberalizing trade environment, trade policy frameworks and macroeconomic linkages of the open economy.	2	Em/S/En
CO2	Critical examination and discuss the various theories of international trade.	3	Em/S/En
CO3	Illustrate steps involved in International Marketing Segmentation, Training and development policy for expatriate employees of an organization, COMPARE important points that needs to be included while drafting global workforce performance & development management system of an organization	4	Em/S/En
CO4	Analyzing the mechanisms and working of the foreign exchange markets. Illustrating various factors affecting exchange rates	4	Em/S/En

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CO5	Evaluating appraise the implications of trade related policies under different International Organizations, Effects of regional economic integration	5	Em/S/En

Course Name **Financial Markets and Institutions**
Course Code **MB4303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students would be able to assess the components of a financial system with respect to real economy linkages and . financial market participants.	2	Em/S/En
CO2	Students would be able to analyze the impact of central bank monetary policy on financial systems and the entire economy.	4	Em/S/En
CO3	Students would be able to appraise the role of financial intermediaries as both brokers and asset transformers.	3	Em/S/En
CO4	Students would be able to evaluate the different financial intermediaries and risk management services .and need for govt. regulations.	5	Em/S/En
CO5	Students would be able to assess the development of financial markets and securities in response to market participants requirements.	4	Em/S/En

Course Name **Risk Management &Insurance**
Course Code **MB4304**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Learn to apply and analysis of concept of risk, types of risk, historical background and principles of risk management.	2	Em/S/En
CO2	Understand and analyze the life insurance policy and business in India.	3	Em/S/En
CO3	Understand and analyze the General insurance policy and business in India.	4	Em/S/En
CO4	Understand, aware and analyze the financial aspect of insurance management including mutual fund business, premium etc.	4	Em/S/En
CO5	Understand, aware and analyze students legal laws applicable on insurance business in India and its impact on insurance business.	4	Em/S/En

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Course Name **Financial Services**
Course Code **MB4305**

Unit-wise Course Outcome			
CO1	To enable students understand concepts of Financial Services, Elicit knowledge on Venture Capital Funds.	2	Em/S/En
CO2	To enable students to understand concepts of Credit Rating Agencies, Acquaint with the Investing, Controlling and Regulating services.	3	Em/S/En
CO3	To facilitate students to analyze concepts of Commercial Banking & Mechanism, Understand the Functioning of Banks, Financial Services and Banking System.	4	Em/S/En
CO4	To enable students analyze concepts of Bills Discounting Mechanism.	4	Em/S/En
CO5	To enable students to understand the Mechanism of Merchant Banking, Acquaint with Legal procedure and Financial Aspects of Factoring & Forfeiting and To Develop the ability to apply the techniques in decision making of Financial services.	3	Em/S/En

Course Name **Working Capital Management**
Course Code **MB4306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Acquire knowledge of Inventory Management, Receivables Management, Cash Management and Payables.	2	Em/S/En
CO2	Student able to apply the techniques for effective cash management	3	Em/S/En
CO3	Students able to analyse the accounts of receivable with credit standards and credit period	4	Em/S/En
CO4	Students able to apply the various techniques of inventory management in an organization to manage the inventory	3	Em/S/En
CO5	Skill to create and evaluate sources of financing working capital	5	Em/S/En

Course Name **Security Analysis and Portfolio Management**
Course Code **MB4307**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Acquire knowledge of concept of investment in Equity, Preference and Debt instruments .	2	Em/S/En
CO2	Acquire knowledge of risk associated with investment into Equity, Preference and Debt.	2	Em/S/En
CO3	Skill to apply risk management and portfolio management.	3	Em/S/En
CO4	Skill to analyze investment scenario and to identify right time to buy assets for investment and right time to book profit on investment,	4	Em/S/En
CO5	Skill to evaluate investment opportunities and risk associated with it.	5	Em/S/En

Course Name **Consumer Behaviour**
Course Code **MB4308**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	After course completion, the student will be able to understand meaning basic concept of Consumer Behavior and appreciate the Applications of consumer behaviour knowledge in marketing.	2	Em/S/En
CO2	After course completion, the student will be able to understand and apply the concept of Personality in Consumer Behavior, Aspects of Personality, Impact on Consumer Behavior and Personality Theories.	3	Em/S/En
CO3	After course completion, the student will be able to understand Consumers in the Social Context and Social Class & Cultural context and application in Consumer Behavior.	3	Em/S/En
CO4	After course completion, the student will be able to understand Consumer Decision Making and Types of decision making & involvement.	3	Em/S/En
CO5	After course completion, the student will be able to learn Consumer Post-Purchase Behavior and Consumer Post-Purchase satisfaction, handling complaints and achieving customer loyalty.	3	Em/S/En

Course Name **Digital Marketing**
Course Code **MB4309**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand and explain emerging trends in digital marketing and critically assess the use of digital marketing tools by applying relevant marketing theories and frameworks.	2	Em/S/En
CO2	Demonstrate cognitive knowledge of the skills required in conducting online research and research on online markets, as well as in identifying, assessing and selecting digital market opportunities.	3	Em/S/En
CO3	Students will be able to apply the understanding of relationship between content and branding and its impact on sales which will be helpful in business development in future.	3	Em/S/En
CO4	Students will be able to interpret the traditional marketing mix within the context of a changing and extended range of digital strategies and tactics.	4	Em/S/En
CO5	The students will be able to understand the contemporary digital revolution and also trends in digital marketing in India and rest of the world.	2	Em/S/En

Course Name **Marketing of Services**
Course Code **MB4310**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	The student will be able to understand the concept of marketing of services and the services industry.	2	Em/S/En
CO2	The student will be able to understand the role of consumer behavior while buying the services and apply the new service development process.	3	Em/S/En
CO3	The student will be able to analyze the role of people in service industry and the various pricing strategies applied in services industry.	4	Em/S/En
CO4	The student will be able to evaluate the service quality, its measurement and gap models.	4	Em/S/En
CO5	The student will be able to analyze the current trends in service industries.	4	Em/S/En

Course Name **Brand Management**
Course Code **MB4311**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	The students will able to outline the concepts of Branding.	2	Em/S/En
CO2	Students able to gain Knowledge and understanding the techniques of Brand equity and Positioning.	3	Em/S/En
CO3	Evaluate creative strategies in the light of Branding structures.	4	Em/S/En
CO4	Analyze and evaluate the brand identity and personality as per the product.	4	Em/S/En
CO5	Students able to analyzing the various brand metrics to measuring brand equity.	4	Em/S/En

Course Name **Integrated Marketing Communication**
Course Code **MB4312**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	The students will able to outline the nature of IMC and describe its environment	2	Em/S/En
CO2	Able to set IMC objectives and formulate IMC budget	3	Em/S/En
CO3	Evaluate creative strategies in the light of given marketing objectives and strategies	5	Em/S/En
CO4	Analyze and evaluate the cost effectiveness of various forms of media	4	Em/S/En
CO5	To understand and apply the behavioral factors that influence the effectiveness of communications	3	Em/S/En

Course Name **Industrial Psychology**
Course Code **MB4313**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)

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CO1	Students will learn about nature, scope and problems of Industrial psychology and also psychological testing, utility, reliability and validity.	2	Em/S/En
CO2	Students will learn how important the role of Psychologist in industrial and personal level.	2	Em/S/En
CO3	Students will learn industrial behavior, learning, leadership, personality and attitude in Organizations and application of effective decisions when needed in this regard.	3	Em/S/En
CO4	Students will be able to apply the concepts of efficiency increase through Industrial Psychology.	3	Em/S/En
CO5	Students will learn handling contemporary issues like grievances , bi-partite and tri-partite agreements, strikes and lockouts with the help of case studies.	4	Em/S/En

Course Name **Human Resource Planning and Development**
Course Code **MB4314**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able Know basic human resource planning concepts and the context of HRD practices.	2	Em/S/En
CO2	Students will be able to Illustrate different ways to strengthen the employee.	3	Em/S/En
CO3	Students will be able to Illustrate different ways to strengthen the employee.	3	Em/S/En
CO4	Students will be able To apply the knowledge for development various compensation strategies.	3	Em/S/En
CO5	Students will be able to develop appropriate reward and understand the labour market changes	3	Em/S/En

Course Name **Organizational Change and Intervention Strategies**
Course Code **MB4315**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students should be able to elaborate the concept of Organization structure & culture	3	Em/S/En
CO2	The students should able to illustrate the concept of efficiency and effectiveness in an organization.	3	Em/S/En

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CO3	Students should be able to analyze the concept of organization structure.	4	Em/S/En
CO4	Students should be able to apply the concept of organizational change.	3	Em/S/En
CO5	Student should be able to summarize the concept of organizational transformation.	4	Em/S/En

Course Name **Counselling Skills for Managers**
Course Code **MB4316**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be introduced to importance of counseling skills with the help of videos and demos helping them to understand it practically.	2	Em/S/En
CO2	Learning of changing behaviors through counseling, and some specific techniques will help the students to understand the role of managers in this regard.	3	Em/S/En
CO3	Students will be able to apply the art of negotiations, its importance, scope and negotiation process.	3	Em/S/En
CO4	Applying of ethical values in negotiation processes will be the major take always for the students.	3	Em/S/En
CO5	Students will learn and understand the current and emerging trends of counseling.	2	Em/S/En

Course Name **Industrial Relations and Labour Laws**
Course Code **MB4317**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students should able to elaborate the concept of Industrial Relations.	2	Em/S/En
CO2	The students should able to illustrate the role of trade union in the industrial setup.	3	Em/S/En
CO3	Students should able to outline the important causes & impact of industrial disputes.	3	Em/S/En
CO4	Students should able to elaborate Industrial Dispute settlement procedures.	3	Em/S/En
CO5	Student should be able to summarize the important provisions of Wage Legislations, in reference to Payment of Wages Act 1936, Minimum Wages Act 1948 & Payment of Bonus Act 1965	3	Em/S/En

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Course Name **Technology Innovation Management**
Course Code **MB4318**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand the Importance and impact of technological innovation	2	Em/S/En
CO2	Students will be able to explain the factors influencing optimal timing, strategies to improve timing	3	Em/S/En
CO3	Students will be able to analyze quantitative and qualitative methods of choosing innovation projects	4	Em/S/En
CO4	Students will be able to analyze the organization and management of Innovation Process	4	Em/S/En
CO5	Students will be able to manage new product development team, constructing new product development teams.	3	Em/S/En

Course Name **Service Operations Management**
Course Code **MB4319**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand the nature and characteristics of services - classification and analysis of service operations	2	Em/S/En
CO2	Students will be able to explain service system design and delivery process & managing people in service organization	2	Em/S/En
CO3	Students will be able to apply the basic TQM tools – quality philosophy and performance excellence	3	Em/S/En
CO4	Students will be able to analyze service facility design, process analysis of facility layout	4	Em/S/En
CO5	Students will be able to analyze Queuing system – queuing models, Service inventory management	4	Em/S/En

Course Name **Materials Management**
Course Code **MB4321**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand the basic concept of master scheduling-manufacturing planning and control system-manufacturing	2	Em/S/En
CO2	Students will be able to explain the manufacturing resource planning-capacity management-scheduling	3	Em/S/En
CO3	Students will be able to apply the basics of inventory management	3	Em/S/En
CO4	Students will be able to know & analyze purchasing management	4	Em/S/En
CO5	Students will be able to analyze the impact of Warehousing functions – types - Stores management-stores systems and procedures-incoming materials	4	Em/S/En

Course Name **Retail Distribution and Logistics**
Course Code **MB4322**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand the Importance, Functions & Objectives of logistics and distribution	2	Em/S/En
CO2	Students will be able to explain the channels of distribution: role of marketing channels – channel functions – channel structure	3	Em/S/En
CO3	Students will be able to apply the basics of transportation management: legal types, modes of transportation	3	Em/S/En
CO4	Students will be able to analyze the importance of order processing and unitization. Defining Order Processing – order acquisition – order entry –document processing	4	Em/S/En
CO5	Students will be able to analyze. E-Logistics – Structure and operation. Logistics resource management E-LRM.	4	Em/S/En

Course Name **Total Quality Management**
Course Code **MB4323**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand the basic concept of quality – vision, mission and policy statements	2	Em/S/En
CO2	Students will be able to explain the principles and philosophies of quality management	3	Em/S/En
CO3	Students will be able to apply statistical process control (SPC) – construction of control charts for variables and attributed. Process capability	3	Em/S/En
CO4	Students will be able to analyze the various tools and techniques of quality management	4	Em/S/En
CO5	Students will be able to analyze the ISO 9004:2000 – quality management systems – guidelines for performance improvements, Quality Audits	4	Em/S/En

Course Name **International Business Laws**
Course Code **MB4324**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	To understand basic Legal framework of International Business	2	Em/S/En
CO2	To understand the working concept of International Organizations and their technicalities.	2	Em/S/En
CO3	To understand and apply the complete framework of electronic commerce in Business	3	Em/S/En
CO4	To apply the fundamentals of international Business Taxation.	3	Em/S/En
CO5	To understand and apply the taxation of foreign income.	3	Em/S/En

Course Name **International Business Environment**
Course Code **MB4325**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)

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CO1	To understand the concept of International financial system; Institutional support to International Business	2	Em/S/En
CO2	To understand and remember the basic fundamentals of Regional Economic Co-operation and Integration between Countries	2	Em/S/En
CO3	To understand and analyze the framework of MNCs and Foreign technology Acquisition	4	Em/S/En
CO4	To understand and Analyze the complete concept of international Market and their related Risks	4	Em/S/En
CO5	To understand and remember the basic overview of international capital flow and barriers of international market	2	Em/S/En

Course Name **EXIM Financing and Documentation**
Course Code **MB4326**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	To understand and remember the basic need of international trade.	2	Em/S/En
CO2	To recognize and understand the various methods of export and analyze the main components of market selection.	2	Em/S/En
CO3	To be able to assess all documentation work related to Export	3	Em/S/En
CO4	To analyze and understand the working of different international financing institutions	4	Em/S/En
CO5	To be able to assess all documentation work related to Imports.	3	Em/S/En

Course Name **Foreign Exchange Management and Currency Derivatives**
Course Code **MB4327**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	To understand basic fundamentals of foreign exchange markets and merchant rates.	2	Em/S/En
CO2	To analyze various Fixed Vs Floating Exchange Rate systems	4	Em/S/En
CO3	To be able to assess the Foreign Exchange Transactions and Purchase and Sale transactions	3	Em/S/En

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CO4	To analyze and understand the types of exchange rates.	4	Em/S/En
CO5	To understand and analyze the currency derivatives.	4	Em/S/En

Course Name **E-business**
Course Code **MB4328**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	The students will be able to understand E-Business applications, infrastructure requirements and mobile information devices.	2	Em/S/En
CO2	Students will understand different E-payment options taking place in inter-organizations and apply it when needed.	3	Em/S/En
CO3	It will help the students to understand different electronic market places and also develop digital documents and knowing about data-warehouses.	3	Em/S/En
CO4	Students will be able to assess the need of security required in E-business. It will also make him to understand firewalls, cyber crimes etc.	3	Em/S/En
CO5	Students will have understanding of virtual factory, web portals and crypto currencies and applying it in real world when needed.	3	Em/S/En

Course Name **Content Marketing**
Course Code **MB4329**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will understand the need and importance of content marketing. Also help creating and applying content marketing strategy.	2	Em/S/En
CO2	Students will create and map personas for target segment. Also help in creating keyword report.	3	Em/S/En
CO3	Students will create; re-create contents as required by the time for the purpose of attraction, affinity, action and authority..	3	Em/S/En
CO4	Students will be able to frame plans for content distribution. They will also understand how influencers help tip content to target segment.	4	Em/S/En
CO5	Students will be able to calculate return on content marketing and do analytics.	5	Em/S/En

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Course Name **Mobile Marketing**
Course Code **MB4330**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	To understand mobile marketing and experiences. It will also make them understand reviewing the mobile marketing landscape.	2	Em/S/En
CO2	To understand the app-building process and also knowing about marketing through different apps.	2	Em/S/En
CO3	Students will be able to assess the value of mobile e-tailing, infotainment services, ticketing, loyalty programs, and mobile wallet.	3	Em/S/En
CO4	Students will be able to understand and create mobile advertising to target audiences. They would also understand SMS marketing, driving traffic and Ad Campaigns.	4	Em/S/En
CO5	To assess the future of mobile marketing, avoiding mobile spams, viruses and knowing privacy violations.	3	Em/S/En

Course Name **Digital Marketing**
Course Code **MB4309**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand and explain emerging trends in digital marketing and critically assess the use of digital marketing tools by applying relevant marketing theories and frameworks.	2	Em/S/En
CO2	Demonstrate cognitive knowledge of the skills required in conducting online research and research on online markets, as well as in identifying, assessing and selecting digital market opportunities.	3	Em/S/En
CO3	Students will be able to make understanding the relationship between content and branding and assess its impact on sales which will be helpful in business development in future.	3	Em/S/En
CO4	Students will be able to interpret the traditional marketing mix within the context of a changing and extended range of digital strategies and tactics.	4	Em/S/En

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CO5	The students will be able to understand the contemporary digital revolution and also assess trends in digital marketing in India and rest of the world.	3	Em/S/En

Course Name **Strategic Management**
Course Code **MB4401**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand the concept of strategic management and purpose of strategy formulation.	2	Em/S/En
CO2	Students will be able to do environmental scanning.	3	Em/S/En
CO3	Students will be able to do strategy formulation needed for the growth of any organization.	4	Em/S/En
CO4	Students will be able to apply strategies formulated.	3	Em/S/En
CO5	Students will be able to evaluate the strategies formulated and make amendments.	5	Em/S/En

Course Name **Corporate Tax Planning**
Course Code **MB4403**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students who complete this course will be able identify the difference between tax evasion and tax planning; students will be able to take a decision while solving the problems of Business.	2	Em/S/En
CO2	By the end of the course students will able to describe how the provisions in the corporate tax laws can be used for tax planning.	3	Em/S/En
CO3	Students of the course will able to explain different types of incomes and their taxability and expenses and their deductibility.	4	Em/S/En
CO4	Students who complete this course will be able to outline the corporate tax laws and its applicability in real Business world.	4	Em/S/En
CO5	Students of the course will able to state the use of deductions of expenses to reduce the taxable income concepts for decision making and its applicability in real Business world.	4	Em/S/En

Course Name **Merger and Acquisitions**
Course Code **MB4404**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to learn the motives and theories behind mergers. Course will also help them to understand financial and managerial synergy of mergers.	2	Em/S/En
CO2	Students will learn corporate restructuring and different methods so that they will be able to develop the understand and use it when needed in real corporate world.	3	Em/S/En
CO3	Process of merger integration, organizational and human aspects in mergers, and managerial challenges will be the core areas students will learn.	3	Em/S/En
CO4	How to apply different valuation methods, leveraged buy-outs, methods of financing, share exchange ratios and taking capital budgeting decisions will be the key areas of understanding and applying when needed.	3	Em/S/En
CO5	Developing strategies is considered to be the most crucial aspect in any business. Students will learn, understand and create strategies in the areas of mergers and acquisitions after going through this course.	4	Em/S/En

Course Name **Financial Derivatives**
Course Code **MB4405**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Exemplify all aspects of derivative market theory and the roles they play in the financial markets	2	Em/S/En
CO2	Determine and Identify how derivative instruments can be used to change or hedge risk and evaluate risks and pay-offs associated with trading such instruments and their implications	3	Em/S/En
CO3	APPRAISE the basic risk management and trading strategies using futures and options	4	Em/S/En

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CO4	Analyze the techniques used to value options, option pay-off's and the factors that determine valuation	4	Em/S/En
CO5	Evaluate swaps and the roles they play in the financial markets	5	Em/S/En

Course Name **International Financial Management**
Course Code **MB4406**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will learn the objectives, functions, market imperfections and political risk involved in international financial management.	2	Em/S/En
CO2	Understanding of international monetary system is not that easy because the world has gone through so many changes in the last century. Students will go through and understand the same in this course.	3	Em/S/En
CO3	Students will gain knowledge related to markets and market participants and also assess exchange rate determination.	3	Em/S/En
CO4	Students will learn that economies never grow alone where the role of foreign and euro bonds also plays an important role. Students will also assess the role of bank for international settlements and its functioning.	3	Em/S/En
CO5	Student will be able to assess the process of cash management and international trade management	3	Em/S/En

Course Name **Retail Management**
Course Code **MB4407**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will gain knowledge of retailing, types of stores, product retailing versus service retailing. It will help them to know the market and take decisions when it comes regarding retailing.	2	Em/S/En
CO2	Examining of store location and its layout will be the basic learning. Students will gain knowledge of exterior design and layout and also interior design of stores and elements.	3	Em/S/En

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CO3	Students will get in-depth knowledge of planning merchandise needs and merchandise budgets. Apply Pricing of merchandising will be the core focus area.	3	Em/S/En
CO4	The most important component of trade i.e., communication will be the focus areas where students will be applying retailing communication and selling process.	3	Em/S/En
CO5	Assess Latest retail trends at national and international level will be the core focus areas where students will learn about interactive kiosks, customer-made stores etc.	3	Em/S/En

Course Name **International Marketing**
Course Code **MB4408**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be introduced with International marketing and its scope along with a difference with domestic marketing. They would also know the management of MNCs and TNCs.	2	Em/S/En
CO2	Students will be able to start with learning international marketing research, segmentation and understand cross cultural consumer behaviour.	3	Em/S/En
CO3	International Product Policy, the New Product Development and Product Planning will be the necessary key understanding areas of students.	3	Em/S/En
CO4	Students will be able to differentiate the pricing policy in international markets in comparison to domestic markets. Knowing dumping and price distortion will also be the focus.	3	Em/S/En
CO5	Students will learn international distribution helping them to apply logistics planning at international level. Developing international promotional strategies will also be the focus areas.	3	Em/S/En

Course Name **Rural Marketing**
Course Code **MB4409**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)

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CO1	Students will be able to understand and analyze the dimensions and potential in rural areas.	2	Em/S/En
CO2	Students will be able to analyze and evaluate the various constraints and challenges for business in Rural Areas.	4	Em/S/En
CO3	Students will be able to analyze and evaluate the pricing strategies need to be followed while targeting rural customers.	4	Em/S/En
CO4	Students will be able to analyze challenges of transportation and storage in rural areas.	4	Em/S/En
CO5	Students will be able to apply effective promotional tools to target rural consumers.	3	Em/S/En

Course Name **Sales and Distribution Management**
Course Code **MB4410**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand the concept of sales management and process of personal selling.	2	Em/S/En
CO2	Students will be able to analyze and manage the sales force.	3	Em/S/En
CO3	Students will be able to apply the sales force management techniques and evaluate the sales performance of sales man.	3	Em/S/En
CO4	Students will be able to analyze and evaluate the various distribution channels.	4	Em/S/En
CO5	Students will be able to analyze and manage the marketing channels	4	Em/S/En

Course Name **International Human Resource Management**
Course Code **MB4411**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	1. Students will able to Understand the issues, opportunities and challenges pertaining to international HRM;	2	Em/S/En
CO2	Develop competency in dealing with cross cultural situations	3	Em/S/En

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CO3	Apply the strategic and functional roles of HRM in various international contexts, specially in areas such as recruitment and selection, performance management, training, learning and development, career management,	3	Em/S/En
CO4	Assess the role of international HRM in context of Selection and performance appraisal.	3	Em/S/En
CO5	Students will able to analyze the Key Issues in context of International Labour Relations.	4	Em/S/En

Course Name **Compensation Management**
Course Code **MB4412**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Understand the fundamentals of design, funding, administration, and communication of compensation programs.	2	Em/S/En
CO2	Identify and locate appropriate internal and external market data.	3	Em/S/En
CO3	Assessment of employee compensation management function.	3	Em/S/En
CO4	Analyzing the tax and regulatory issues associated with compensation programs	4	Em/S/En
CO5	Be able to analyze a compensation program, identify problem areas and make recommendations for improvement to the program.	4	Em/S/En

Course Name **Performance Management**
Course Code **MB4413**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	To explain the concept of performance management and different advantages of implementing well-designed performance management systems.	2	Em/S/En
CO2	To understand and develop key skills involved in measuring the effective performance management.	3	Em/S/En
CO3	To design a performance management system to measure employee behavior and for the employee development.	4	Em/S/En
CO4	Analyzing the role of performance consulting.	4	Em/S/En
CO5	Students will able to assess the Contemporary issues in performance management	3	Em/S/En

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Course Name **Training and Development**
Course Code **MB4414**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	To understand basic overview and concept of training	2	Em/S/En
CO2	To recognize and understand the various methods of job training.	3	Em/S/En
CO3	To assess various needs for training. To apply how Training surveys are conducted. To understand the training needs assessment.	3	Em/S/En
CO4	To analyze and understand how to assess and evaluate training effectiveness in an organization. To apply the various models of training	4	Em/S/En
CO5	To evaluate emerging issues in Training and development system. To apply value-based management approaches in Training programmes.	5	Em/S/En

Course Name **Operations Strategy and Control**
Course Code **B4415**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Describe and demonstrate knowledge of the key operations strategy concepts. Student will be able to know about competitive dimensions.	2	Em/S/En
CO2	Analyze and evaluate various facility alternatives and their capacity decisions, develop skills regarding purchase supply strategy	4	Em/S/En
CO3	Develop knowledge about process technology strategy, Student will be able in developing his knowledge about improving operations capabilities	3	Em/S/En
CO4	Student will learn the practical development and implementation of operations strategy. Students will be able to formulate Plan and implement suitable practices in the operations	3	Em/S/En
CO5	Students will be able Plan and implement suitable monitoring and quality control strategies. Students will know about the problems and errors in monitoring and controlling	3	Em/S/En

Course Name **E Business Operations**
Course Code **MB4416**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand the e-business concepts and Recognize the e-business models and infrastructure. Students will learn how e business concepts are applied to different fields.	2	Em/S/En
CO2	Students will be able to discuss different components and importance of SCM	3	Em/S/En
CO3	Students will develop the skills of inventory management and transportation scheduling	4	Em/S/En
CO4	Demonstrate an understanding of retailing in E-commerce by order processing, unitization and packaging	3	Em/S/En
CO5	Students will be able to assess techniques of collaborating material flows. Students will come to analyze recent trends of Supply chain restructuring and mapping.	4	Em/S/En

Course Name **Infrastructure Project Management**
Course Code **MB4417**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand the concepts of Infrastructure. Students develop knowledge about infrastructure scenario in India about key issues players and phases.	2	Em/S/En
CO2	Demonstrate an understanding of Construction and maintenance of Infrastructure on different models and risk management	3	Em/S/En
CO3	Students will be able to analyze and evaluate infrastructure economics and financing options. Students will learn about project restructuring and risk allocation in project finance	4	Em/S/En
CO4	Demonstrate an understanding of project governance and database management.	3	Em/S/En
CO5	Students will learn the methodology of selecting the developers. Students will be able to do project life cycle and benefit analysis	3	Em/S/En

Course Name **Supply Chain Performance Measurement**

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Course Code **MB4418**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Describe and demonstrate knowledge of SCM performance measurement, its criteria and steps in developing SCM PM	2	Em/S/En
CO2	Student will be able to analyze and evaluate supply chain strategy for customer services and comparing them with the cost of service.	4	Em/S/En
CO3	Student will be able to analyze and evaluate different performance measures of supply chain management	4	Em/S/En
CO4	Students will be able to understand about different models of SCM performance measurement. Student will be able to benchmark the supply chain performance using financial data.	3	Em/S/En
CO5	Students will learn about different methods of enhancing supply chain performance through Supply chain integration, optimization and reconfiguration	3	Em/S/En

Course Name **Reverse logistics**
Course Code **MB4419**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Student will be able to define reverse logistics and basic elements of it. Student will be able demonstrate knowledge of strategic use of reverse logistics and challenges in it.	2	Em/S/En
CO2	Understand and analyze the various reverse logistics information management systems. Student will learn the different aspects of managing returns through financial management and outsourcing reverse logistics.	4	Em/S/En
CO3	Students will be able to apply reverse logistics flow through disposition and strategic elements secondary market	3	Em/S/En
CO4	Students will be able to demonstrate their knowledge about the environment concerns in reverse logistics	3	Em/S/En

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CO5	Student will be able to analyze and evaluate current scenario of reverse logistics and future trends in different emerging industries	4	Em/S/En

Course Name **Procurement Management**
Course Code **MB4420**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Describe and demonstrate knowledge of the key concepts of Procurement Management. Student will be able to develop knowledge of influencing factors in organization of procurement department.	2	Em/S/En
CO2	Student will be able to analyze and evaluate modern purchasing process and technologies with traditional processes.	4	Em/S/En
CO3	Student will be able to analyze and develop strategies of requirement specifications, researching and analyzing markets and strategies for selection of selection of suppliers.	4	Em/S/En
CO4	Students will learn different aspects and develop their skills for Contract preparation and negotiation and management of logistics	3	Em/S/En
CO5	Students will be able to analyze different aspects of procurement of capital equipment, service procurement and services.	3	Em/S/En

Course Name **Cross-Cultural Management**
Course Code **MB4109**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to understand culture, values, world views and socio-cultural systems and their importance relating to other countries of the world.	2	Em/S/En
CO2	Measuring cross cultural development, impact of culture on individual's behaviour, cross cultural communications will be the key take-aways.	3	Em/S/En
CO3	Students will assess gender differences, multi-ethnicity, geography, cultural aspects of international business negotiations and develop negotiation strategies.	3	Em/S/En

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CO4	Students will develop cross cultural intelligence and managerial competence, management of cross culture team and developing leadership traits required to deal with for the development of their business.	3	Em/S/En
CO5	Students will assess the significance of cultural values & ethics in cross border businesses. They would also learn about cross border HRM and employment practices prevailing with major countries.	3	Em/S/En

Course Name **International Marketing**
Course Code **MB4408**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be introduced with International marketing and its scope along with a difference with domestic marketing. They would also know the management of MNCs and TNCs.	2	Em/S/En
CO2	Students will be able to start with learning international marketing research, segmentation and understand cross cultural consumer behaviour.	3	Em/S/En
CO3	Analyzing International Product Policy, the New Product Development and Product Planning will be the necessary key understanding areas of students.	3	Em/S/En
CO4	Differentiate the pricing policy in international markets in comparison to domestic markets. Knowing dumping and price distortion will also be the focus.	3	Em/S/En
CO5	Students will learn international distribution helping them to apply logistics planning at international level. Developing international promotional strategies will also be the focus areas.	3	Em/S/En

Course Name **Global Financial Markets and Instruments**
Course Code **MB4422**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will be able to know about international business environment and global financial institutions.	2	Em/S/En

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CO2	Students will be able to assess foreign exchange markets, fixed and flexible exchange rates and also growth & development of MNCs.	3	Em/S/En
CO3	Students will learn the international financial system specially Bretton wood conference and European monetary system. Good knowledge on ADRs, GDRs, Euro Bonds will help to develop them in international business arena.	3	Em/S/En
CO4	Students will learn multinational financial management, investment and analyzing financing decisions in international environment, and also learning international portfolio management.	4	Em/S/En
CO5	Students will learn about international banking where key focus areas will be Basel guidelines, LIBOR, portfolio operations of global banking organisations.	2	Em/S/En

Course Name **International Logistics Management**
Course Code **MB4423**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will learn about international logistics management, logistics and marketing interface, value-chain and production efficiency.	2	Em/S/En
CO2	Assessing different systems of shipping, chartering, Baltic freight exchange and containerization will be the major focus and understanding areas.	3	Em/S/En
CO3	Students will be able to learn about Air Transport, Air Freight, IATA, Cargo handling etc. It will help the students to evaluate and plan for costing and also savings.	3	Em/S/En
CO4	Designing supply chain at international level will be the key understanding for students. They will also be able to take international decisions on supply chain management.	4	Em/S/En
CO5	Forecasting and planning in supply chain management will be the key focus area. Students will learn about role of Information Technology in supply chain management and its coordination.	4	Em/S/En

Course Name **Social Media Marketing**
Course Code **MB4424**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	It will help students to understand history and need for social media marketing.	2	Em/S/En
CO2	Students will understand the value of blogs and also create them. Also Podcasts and Webinars understanding and creation.	3	Em/S/En
CO3	Students will be updated on different Social Networks and its importance.	3	Em/S/En
CO4	Creating micro-blogging and discussion boards will help students to understand its value.	5	Em/S/En
CO5	Monitoring and understanding the relevance of social media will be the focus and also connecting with ethics.	4	Em/S/En

Course Name **Business Intelligence and Analytics**
Course Code **MB4425**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	The students will understand the basics of business intelligence, its need and role of mathematical models in developing businesses.	2	Em/S/En
CO2	The linking of business strategy and business analytics will help the students developing mindset for creating new strategies.	3	Em/S/En
CO3	Students will assess data warehousing techniques , physical database. It will help them deploying and supporting data warehousing and business in intelligence systems.	3	Em/S/En
CO4	Students will analyze cycle of business intelligence, spread sheets, decision engineering using business intelligence tools.	4	Em/S/En
CO5	Students will apply the business intelligence in different domains of CRM, HR, and Productions.	3	Em/S/En

Course Name **Cyber Law**
Course Code **MB4426**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will learn and understand about different acts related to Information Technology Act in India.	2	Em/S/En
CO2	Analyzing technical and legal issues in digital signature and also certifying authorities.	4	Em/S/En
CO3	Gaining knowledge about cyber crimes, legal issues, and investigations will be the prime understanding of students.	3	Em/S/En
CO4	Assessing whether consumers of India are really covered under the Consumer Protection Act if the cyber crime happens with them.	3	Em/S/En
CO5	Able of Proofing and management of electronics records will be the prime focus. Also Intellectual Property Rights coverage will help them understanding legality in IPR issues.	3	Em/S/En

Course Name Search Engine Optimization Methods
Course Code MB4427

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than One)
CO1	Students will gain knowledge of internet marketing. They will also know HTML Tags, code verification and validation.	2	Em/S/En
CO2	Students will understand search engines & ranking concepts. Students will also learn how to perform Keyword Research.	3	Em/S/En
CO3	Analyzing SEO best practices to incorporate on a Website. They will also be able to Analyze & Monitor SEO progress using free tools.	4	Em/S/En
CO4	Help students to link building strategies. Also developing mindset to linking different concepts.	4	Em/S/En
CO5	Students will do web traffic analysis, web stats tools, and also tracking end-users.	4	Em/S/En

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Program Name:	**Bachelor of Commerce**			
Course Name	**Principles of Management**			
Course Code	**BC3101**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	The student will come to know about the basic concept of Management, Theories, Approaches used in Management	2	s	
CO2	The student will be able to understand the Organizing and Organization Structure.	3	s	
CO3	The student will be able to learn about the Concept and Process of Staffing, Recruitment and Selection Process in an organization	2	s	
CO4	The student will be able to understand the meaning and concept of Motivation and Coordination in an organization.	3	s	
CO5	The student will be able to learn about concept of Directing and Controlling process in an organization.	3	s	
Course Name	**Computer Aided Financial Accounting**			
Course Code	**BC3102**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	The students will understand the concepts related to financial accounting.	2	Emp/S/Ent	
CO2	The students will Identify the profit and loss account and balance sheet	2	Emp/S/Ent	
CO3	Be able to use spreadsheet software (MS Excel) and presentation software (MS Power Point) and communication and information systems.	3	Emp/S/Ent	
CO4	The students will demonstrate the role of partnership, revaluation, goodwill, retirement.	3	Emp/S/Ent	
CO5	The students will analyze the royalty accounts and the hire purchase.	3	Emp/S/Ent	
Course Name	**Business Economics**			
Course Code	**BC3103**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	

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CO1	The students will understand the role of business economics in decision making.	2	Emp/S	
CO2	The students will understand and Analyse the demand determinants and measuring price elasticity of demand.	2	Emp/S	
CO3	The students will understand and Analyse the peculiarities of factors of production.	3	Emp/S	
CO4	The students will identify the supply and cost analysis of Total, Average and marginal curves	3	Emp/S	
CO5	The students will identify Equilibrium, price and output decisions in various market forms	3	Emp/S	
Course Name	**Environmental Studies**			
Course Code	**CY3205**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To Understand the definition, scope and importance of natural resources and associated problems	2	S	
CO2	To Understand the concept of ecosystem and different types of ecosystem	2	S	
CO3	To Understand biodiversity and its conservation	3	S	
CO4	To Understand causes, effects and control measures of environmental pollution	3	S	
CO5	To Understand the social issues and the various law to protect environment	3	S	
Course Name	**Business Mathematics**			
Course Code	**BC3105**			
Unit-wise Course Outcome				
CO1	Memorize and apply the knowledge of matrices in solving business problems	2	Emp/S	
CO2	To understand the basic concepts of limits and differentiation and to use them to solve the problems in business	2	Emp/S	
CO3	To understand the basic concepts of Integration to solve the problems in Economics and its related areas.	3	Emp/S	
CO4	To understand the methods of solving problems on simple interest, compound interest, annuities etc, related to business finance	3	Emp/S	
CO5	To understand the basic concepts of Ratio and Proportion and to use them to solve the problems in business.	3	Emp/S	
Course Name	**Communication and professional Skill-I**			
Course Code	**VP3101**			

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)	
CO1	Student(s) should be able to write/understand and create sentences in English of all tenses, Student(s) will heighten their awareness of correct usage of English grammar in writing and speaking and will be able to improve their speaking ability in English both in terms of fluency and comprehensibility.	2	Emp/S/Ent	
CO2	Student(s) should be able to take part in daily routine conversation in English language.	2	Emp/S/Ent	
CO3	Student(s) should be able to understand and partially be groomed in corporate etiquettes and culture.	2	Emp/S/Ent	
CO4	Student(s) will learn new vocabulary words, use them correctly in a sentence while speaking and writing, , and understand their meaning in the text.	2	Emp/S/Ent	
CO5	Student(s) should learn to use strategies to listen actively, will be able to distinguish more important ideas from less important ones and will participate in the discussions. It will help the students to improve their reading and writing skills.	2	Emp/S/Ent	
Course Name	**Business Statistics**			
Course Code	**BC3202**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	Students will able to understand about the statistics and gain the knowledge of data representation through graphs and tables.	2	Emp/S/Ent	
CO2	Students gain the knowledge of data analysis through different methods.	2	Emp/S/Ent	
CO3	Students learn the concept of probability.	3	Emp/S/Ent	
CO4	Student understand about the correlation and regression concept and also different methods (Scatter diagram, Karl Pearson's and Spearman's method) of finding correlation coefficient.	3	Emp/S/Ent	
CO5	Students gain the knowledge of time series analysis and index numbers.	3	Emp/S/Ent	
Course Name	**Business Law**			
Course Code	**BC3203**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	

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CO1	Understand and apply the concepts of Indian Contract Act in business dealings	2	Emp/S/Ent	
CO2	Understand and apply the concepts of Indian special Contract Act related to indemnity and Bailment	2	Emp/S/Ent	
CO3	Understand the need of sale of goods act, apply its laws for conduction of smooth business and analyze the legal issues to solve disputes	3	Emp/S/Ent	
CO4	Understand the basic principles of laws related with the IT sector and analyze the issues for dispute solving machinery	3	Emp/S/Ent	
CO5	Understand the rule of partnership as per the Partnership Act, analyze the problems of partnership firm and evaluate the method for registration of a partnership firm	3	Emp/S/Ent	
Course Name	**Public Finance**			
Course Code	**BC3206**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	Students would be able to understand the basic concepts of public finance and analyze the functioning of a democratic government	2	Emp/S	
CO2	Students would be to apply the principle of optimal taxation in analyzing various government taxation policies.	2	Emp/S/Ent	
CO3	Students would be able to know the application of public finance in management and redemption of public debt.	3	Emp/S/Ent	
CO4	Students would be able to understand the working of Finance Commissions	3	Emp/S/Ent	
CO5	Students would be able to analyze approach to various expenditures and its effects on developing economies.	3	Emp/S/Ent	
Course Name	**Advanced Accounting**			
Course Code	**BC3205**			
Unit-wise Course Outcome				
CO1	To understand how to use and apply the basic accounting concept for Nonprofit making organization.	2	Emp/S/Ent	
CO2	To understand and apply the numerical of GDP accounting in the context of enterprise form of Value added statement. To understand the accounting of consignments.	2	Emp/S/Ent	
CO3	To understand the accounting of Royalty and Hire purchase of assets.	3	Emp/S/Ent	

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CO4	To understand how to use a basic accounting system to create the data needed in the banking and insurance sector companies.	3	Emp/S/Ent	
CO5	To understand the various concept to claim of loss of business from insurance company in the context of accounting information.	3	Emp/S/Ent	
Course Name	**United Nations Development Programme**			
Course Code	**HU3202**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	Students will learn about the Structure, Mission in Vtirsoidonucatniodn Goals of UNDP.			
CO2	Equip the students with the knowledge of sustainable livelihoods for inclusive economic growth.			
CO3	Students will learn and explore about the Human Development index to promote wellbeing at all ages.			
CO4	To impart better education on SDGs goals, provide access to justice to all and build effective, accountable and inclusive institutions at all levels	e		
CO5				
Course Name	**Office Documentation**			
Course Code	**MS3241**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To understand the basic concept of Office. To understand the advantages of office work, categories of office, , duties and responsibilities of office staff, specific skill requirements for office jobs.	2	Emp/S/Ent	
CO2	To understand the basic concept of Records Management in an office. To Extend the knowledge about objectives of Record Keeping; Filing System, Steps in Filing; Indexing; Selecting the Appropriate Filing System.	2	Emp/S/Ent	
CO3	To know about the concept of Document/Report writing. To understand the key points to write a document: The 5w-h plan for writing; steps in writing workplace documents; tips for report writing and Basics of office meetings.	3	Emp/S/Ent	

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CO4	To provide a learning about the organizational Leadership & Motivation in an office. To know about the various types of organizational leadership, qualities of a Leader, leadership ethics, traits of a leader, leadership styles.	3	Emp/S/Ent	
CO5	To extend the knowledge about Documentation Practices. To provide the knowledge related to types of documents that used in an office, documents property and categories, documents format and management, Templates design, documents development process and control	3	Emp/S/Ent	
Course Name	**Disaster Management**			
Course Code	**CE3101**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	Students should be able to understand the basic concepts of disasters and its relationships with development	2	S	
CO2	Students should be able to understand the approaches of Disaster Risk Reduction (DRR) and the relationship between vulnerability, disasters, disaster prevention and risk reduction	2	S	
CO3	Students should be able to understand the Medical and Psycho-Social Response to Disasters.	2	S	
CO4	To understand and gain the detailed knowledge of disaster responses	2	S	
CO5	Students should have awareness of Disaster Risk Management institutional processes in India.	2	S	
Course Name	**Financial Technology Services & Management**			
Course Code	**BC3307**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To educate student to Fin-Tech Services about meaning history, types, users , advantages and career prospective	2	Emp/S/Ent	
CO2	To aware the students about digital payment, Crypto-currency and Block-Chain concept.	2	Emp/S/Ent	
CO3	To educate student about digital finance and alternative finance and their benefits and limitations	2	Emp/S/Ent	
CO4	To Create basic understanding between students for applicable regulation in Fin-Tech	2	Emp/S/Ent	
CO5	To create understanding in students about data protection methods used in Fin-Tech, their benefits and limitations	2	Emp/S/Ent	

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Course Name	**Computer Aided Cost Accounting**			
Course Code	**BC3302**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	Students would be able to get a clear picture of cost concept; role of management accounting in the business, students will be able to take a decision while solving the problems of Business.	2	Emp/S/Ent	
CO2	To explain the detailed knowledge of material and labour in cost accounting, and Solve problems relevant to cost accounting systems using ideas and techniques some of which are at the forefront of the discipline.	2	Emp/S/Ent	
CO3	To illustrate the classification, allocation and absorption of overhead, and Use organization skills (including task and time management) relevant to cost accounting systems both individually and in a group situation	3	Emp/S/Ent	
CO4	Students would analyse the motive behind preparing the various budgets, establishing a budgetary control system and its administration, Evaluating the real problems while preparing the budget in Business	3	Emp/S/Ent	
CO5	The student will evaluate the application of computer in cost accounting, and understand the application of computer in cost accounting, and Exercise appropriate judgment in selecting and presenting information using various methods relevant to cost accounting	4	Emp/S/Ent	
Course Name	**Corporate law**			
Course Code	**BC3305**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	The student will remember the meaning and the type of companies.	2	Emp/S	
CO2	The student will remember and understand the formation of the companies under the companies act, 2013.	2	Emp/S	
CO3	The student will remember, understand prospectus, memorandum and the article of association	3	Emp/S	
CO4	The student will remember and analyse the management of the companies under companies act, 2013.	3	Emp/S	

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CO5	The student will remember, analyze the share capital and winding up of the company concepts	4	Emp/S	
Course Name	**Financial Management**			
Course Code	**BC3306**			
Unit-wise Course Outcome				
CO1	The student will remember the overview of financial management	2	Emp/S	
CO2	The student will explain the capital budgeting techniques.	2	Emp/S	
CO3	The student will illustrate and explain the cost of capital and capital structure.	3	Emp/S	
CO4	The student will illustrate and explain the different dividend policy.	3	Emp/S	
CO5	The student will evaluate the management of working capital.	4	Emp/S	
Course Name	**Principle and Practices of E-Commerce**			
Course Code	**BH3304**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To understand the brief history of E-commerce.	2	Emp/S	
CO2	To explain the E- commerce of business models and concepts.	2	Emp/S	
CO3	To illustrate the building of an E-commerce website, security and payment system.	3	Emp/S	
CO4	To explain the concept of E-commerce marketing, online retailing and services.	3	Emp/S	
CO5	To explain the detailed knowledge of social networks , auctions and portals.	3	Emp/S	
Course Name	**Stock Market and Mutual Funds**			
Course Code	**MS3342**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	Understand some basic concepts of Stock market and its working.	2	Emp/S	
CO2	Identify Nifty and Sensex, and compare both tradings	2	Emp/S	
CO3	To illustrate the treding in stock market, to understand the NSDL, CSDL and compare the BSE and NS	3	Emp/S	
CO4	To Understand the stock market and anlysing the trends of the market.	3	Emp/S	

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CO5	Create the Demat Account transactions, IPOs, and plan for future tradings, in stock markets.	4	Emp/S	
Course Name	**Communication & Professional Skills-III**			
Course Code	**VP3301**			
Unit-wise Course Outcome				
CO1	Understand some basic concepts of Stock market and its working.	2	Emp/S	
CO2	Identify Nifty and Sensex, and compare both tradings	2	Emp/S	
CO3	To illustrate the treding in stock market, to understand the NSDL, CSDL and compare the BSE and NSE	3	Emp/S	
CO4	To Understand the stock market and anlysing the trends of the market.	3	Emp/S	
CO5	Create the Demat Account transactions, IPOs, and plan for future tradings, in stock markets.	4	Emp/S	
Course Name	**Indian Knowledge System**			
Course Code	**HU3201**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	The students will be able to understand the Indian Knowledge System such as historical development, sources and scope.	2	S	
CO2	The students will be able to understand the vocabulary system of Indian knowledge system.	2	S	
CO3	The students will be able to understand and apply the philosophical foundations and methods of IKS.	3	N	
CO4	The students will be able to execute the case studies based on the Indian knowledge system.	3	N	
CO5	The students will be able to understand the influence of Indian Knowledge System on world.	2	S	
Course Name	**Income Tax and E-Filing**			
Course Code	**BC3401**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	The student will remember the taxation law definitions and basic concepts of personal and business taxation system.	2	Emp/S/Ent	
CO2	The student will remember and understand the approaches used in computation of salary income and income from house property.	2	Emp/S/Ent	

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CO3	The student will remember, understand and apply concept in computation of income from business and profession ,capital Gain and IFOS.	3	Emp/S/Ent	
CO4	The student will remember and apply about the carry out and clubbing provisions.	3	Emp/S/Ent	
CO5	The student will remember, analyze and evaluate the deductions, rebate, relief and E-filing	4	Emp/S/Ent	
Course Name	**Management Accounting**			
Course Code	**BC3402**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To enlighten the students thought and knowledge on management Accounting, differentiate the Financial and management accounting.	2	Emp/S/Ent	
CO2	To give proper idea on financial statement analysis in practical point of view for the Business purpose.	2	Emp/S/Ent	
CO3	To provide knowledge about budgetary control keeping in mind the scope of the concept of the Business, analyse and apply the budgetary tool in business.	3	Emp/S/Ent	
CO4	To develop the know-how and concept of marginal costing and absorption costing with practical problem of the companies and manufacturing units, and apply & evaluate the BEP, CVP and other tools.	3	Emp/S/Ent	
CO5	Outline and apply management tools and techniques such as the variance analysis, operational performance measures, quality, and environmental cost management, and create management report to the management on the basis of evaluation and analysis of data.	4	Emp/S/Ent	
Course Name	**Principles and Practices of Corporate Governance**			
Course Code	**BC3406**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To familiarize the basic concepts of framework and ethical business practices in the context Indian corporate houses.	2	Emp/S	
CO2	To understand the approaches used in Indian regulatory and Clause 49.	2	Emp/S	
CO3	To aware the constituents and factions of ethical business practices committee .	3	Emp/S	
CO4	To understand about white collar scams of different countries .	3	Emp/S	

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CO5	To understand about the Principles of Good Governance and Code of Best Practice, 2000 Sarbanes-Oxley (SOX) Act, 2002.	4	Emp/S	
Course Name	**Business Strategy and Environment**			
Course Code	**BC3404**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	Develop understanding of importance of business environment studies.	2	Emp/S/Ent	
CO2	Skill of analyzing business environment..	2	Emp/S/Ent	
CO3	Based on the available data students will be able to predict and forecast emerging business opportunities and threats.	3	Emp/S/Ent	
CO4	Acquire knowledge of components of Economic, Political, Legal, Technological, Social, International Environment and their importance.	3	Emp/S/Ent	
CO5	Skill of designing business strategy after analyzing business environment.	4	Emp/S/Ent	
Course Name	**Management of International Finance**			
Course Code	**BH3404**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To provide introduction and understanding about International Financial Management, regarding business and finance.	2	Emp/S	
CO2	To create awareness about capital structure and theories of capital structure, apply and analyse the capital structure for the company and business purpose.	2	Emp/S	
CO3	To make them understand the cost of capital in wide aspects, and analyse & evaluate all the concept of cost of capital	3	Emp/S	
CO4	To provide knowledge about dividend policies and various dividend models, analyse and evaluate the policies for dividend distribution	3	Emp/S	
CO5	To enable them to understand working capital management, evaluate, apply and analyse the WCM for business management.	4	Emp/S	
Course Name	**Principles and Practices of Banking**			
Course Code	**BI3404**			

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)	
CO1	To understand the basic concept of Banking system. To understand about Indian Banking, Bank Nationalization in India, Banking Regulation Act.	2	Emp/S	
CO2	To understand the basic concept of Commercial Banking. To Extend the knowledge about various functions of commercial banks (Primary, Secondary and General utility functions).	2	Emp/S	
CO3	To know about the concept of Cooperative Banking. To understand the various functions of cooperative banks, Structure of cooperative banking, advantages and disadvantages of cooperatives banking.	3	Emp/S	
CO4	To provide a learning about the Central Bank. To know about the various types of functions of central bank- (Currency Authority, Banker, Agent and Advisor to the Government).	3	Emp/S	
CO5	To extend the knowledge about E- Banking. To provide the knowledge related to Benefits of E- Banking, Various Activities Under E-Banking.	4	Emp/S	
Course Name	**Tally with Taxation**			
Course Code	**MS3443**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To educate student for computerized accounting and also revise the basic principles of financial accounting	2	Emp/S	
CO2	To introduce the application of tally and basic application like creating company, configuring company in Tally, recording opening balance and ledger creation in business sector	2	Emp/S	
CO3	To train students for vouching entry, inventory entry, manufacturing entry and production entry.	3	Emp/S	
CO4	To understand how to generate various report in Tally ERP 9.0.	3	Emp/S	
CO5	To understand and learn e Filling of various report and returns to different authority.	4	Emp/S	
Course Name	**Employability Skills-I (Numerical Ability)**			
Course Code	**VP3401**			

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)	
CO1	This program lead to improve numerical skills of the students to do calculative part in short period of time.	2	Emp/S	
CO2	Understanding of directions, blood relations, ranking, coding-decoding, calendar, clock enhance the analyzing power of students.	2	Emp/S	
CO3	Understanding how a person efficiency impact on TIME AND WORK, And let to know the power of compounding in COMPUND INTEREST, also Know about the percentage calculation in various aspects.	3	Emp/S	
CO4	Calculate Time Speed and Distance in various aspects,, how Selling price and Cost price lead to profit or lose.	3	Emp/S	
CO5	With the help of this student can qualify for various competitive exams (BANK, SSC, POLICE, DEFENCE, ETC.) This will be helpful for written exam of various companies.	2	Emp/S	
Course Name	**Corporate Accounting**			
Course Code	**BC3501**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To understand and apply the concepts of share and debenture procument accounting	2	Emp/S	
CO2	To apply the policies of preparation of financial statement	2	Emp/S	
CO3	To understand and apply the rules of valuation of goodwill and shares	3	Emp/S	
CO4	To understand and apply about the amalgamation accounting of corporates	3	Emp/S	
CO5	To understand the accounting of holding company.	4	Emp/S	
Course Name	**Goods and Service Tax**			
Course Code	**BC3502**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To aware about the definitions and conceptual idea of goods and service tax	2	Emp/S/Ent	

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CO2	To understand about the structure of GST organization and procedure of registration	2	Emp/S/Ent	
CO3	To aware and understand about levy and collection mechanism.	3	Emp/S/Ent	
CO4	To understand and analysis about input tax credit system	3	Emp/S/Ent	
CO5	To understand, explain and evaluating the payment of goods and service tax.	4	Emp/S/Ent	
Course Name	**Project Planning & Management**			
Course Code	**BC3503**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To make students understand the overview of project management and various principles in the project management	2	Emp/S/Ent	
CO2	Students will understand project characteristics and various stages of a project and also conceptual clarity about project organization and feasibility analyses	2	Emp/S/Ent	
CO3	Students will be made aware regarding the various projects appraisal techniques along with financial appraisal and various other discounting techniques.	3	Emp/S/Ent	
CO4	Students will analyze regarding the various sources of finance and the role of tax planning	3	Emp/S/Ent	
CO5	Students will analyze regarding post completion audit and abandonment analysis in project.	3	Emp/S/Ent	
Course Name	**Principle and Practices of Auditing**			
Course Code	**BH3509**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	The student will remember the basic principles and techniques of Auditing	2	Emp/S	
CO2	The student will explain the cost audit, tax audit and SAs	2	Emp/S	
CO3	The student will explain the detailed knowledge of appointment and the qualification, Dis-qualification of the auditor	3	Emp/S	
CO4	The student will illustrate and analyse the various Auditors reports	3	Emp/S	
CO5	The student will evaluate the investigation process of auditing in banks and corporate houses	4	Emp/S	
Course Name	**Marketing Management**			

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Course Code	**BC3505**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	Know basic concept of marketing and its application towards the development of organizational goal.	2	Emp/S/Ent	
CO2	Illustrate different ways to elevate the sales of your organization practically.	2	Emp/S/Ent	
CO3	Understand fundamental marketing concepts, theories, and principles in areas of marketing.	3	Emp/S/Ent	
CO4	Apply the knowledge, concepts, tools necessary to overcome challenges, and issues of marketing in a changing technological landscape	3	Emp/S/Ent	
CO5	Develop creative solutions to marketing problems	4	Emp/S/Ent	

Course Name	**Digital Marketing**			
Course Code	**BH3505**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	The student will remember the basic concepts and the overview of the Digital Marketing	2	Emp/S/Ent	
CO2	The student will remember and understand the different theories of traditional vs modern marketing and the startegies of the current era in marketing	2	Emp/S/Ent	
CO3	The student will remember, analyse the mobile marketing process	3	Emp/S/Ent	
CO4	The student will remember and analyse and use the search engine marketing	3	Emp/S/Ent	
CO5	The student will remember, analyze the different e-mail marketing and budget resourse planning	4	Emp/S/Ent	

Course Name	**International Business and Foreign Exchange**			
Course Code	**BH3506**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	The student will remember the basic concepts and the overview of the international business	2	Emp/S/Ent	
CO2	The student will remember and understand the different theories of the international trade prevailing in the international market	2	Emp/S/Ent	

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CO3	The student will remember, understand the international trade and international financial institution	3	Emp/S/Ent	
CO4	The student will remember and analyse the tariffs and its different types	3	Emp/S/Ent	
CO5	The student will remember, analyze the different foreign exchange concepts and the processes	3	Emp/S/Ent	

Course Name	**International Banking**			
Course Code	**BI3504**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	After the completion of unit students will understand the various concepts and working structure of international financial system along with the knowledge of international monetary system.	2	Emp	
CO2	After completion of this course the students would be able to understand the investment avenues available for investment in international markets such as international equity market.	2	Emp	
CO3	After completion of this course the students would be able to demonstrate knowledge and critical understanding of international banking environment and operations of banks from global perspective.	3	Emp	
CO4	After completion of this course the students would be able to understand the benefits of off shore financial centre and SEZ.	2	Emp	
CO5	After completion of this course the students would be able to understand various payment system that can be used in international lending operations and the knowledge about crypto currency guides in a modern investment alternative.	2	Emp	

Course Name	**Retail Banking**			
Course Code	**BI3505**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	The students will be able to learn about the different concepts of Retail Banking.	2	Emp/S/Ent	
CO2	The students will be able to learn about different retail banking products that are offered to customers in the market.	2	Emp/S/Ent	

CO3	The student will be able to learn about the marketing techniques of promoting retail banking products in the market.	3	Emp/S/Ent	
CO4	The students will be able to learn about the different guidelines or measures issued by RBI in case of default on part of the retail banks or customers available in the market	3	Emp/S/Ent	
CO5	The students will be able to gain knowledge of different types of meetings and minutes of the meeting. Moreover students will be able to winding up procedure of the company.	4	Emp/S/Ent	

Course Name	**Detailed Project Report**			
Course Code	**MS3544**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To aware of the components of detailed project report.	2	Emp/S/Ent	
CO2	To understand the process of preparation of detailed project report	2	Emp/S/Ent	
CO3	To know about factors of project to get competency of preparation of business viability report.	3	Emp/S/Ent	
CO4	To understand the technical, commercial, financial and socio economic aspects.	3	Emp/S/Ent	
CO5	To ability to get applying the legal and financing approval process.	3	Emp/S/Ent	

Course Name	**Working Capital Management**			
Course Code	**BC3601**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	Students will Acquire basic knowledge of Inventory Management, Receivables Management, Cash Management and Payables.	2	Emp/S/Ent	
CO2	Students will be able to understand kill to use the technology in Inventory Management in a cost-effective way.	2	Emp/S/Ent	
CO3	Students will be able to apply Skills of liquidity risk Management of any enterprise.	3	Emp/S/Ent	
CO4	To understand the models Cash Management of any enterprise.	3	Emp/S/Ent	
CO5	To calculate requirements Working Capital Management in different strategy.	4	Emp/S/Ent	

Course Name	**Business Ethics and Corporate Social Responsibility**			

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Course Code	**BC3602**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To understand the meaning of Ethics and Moral Obligations. To understand the basic concept of Business Ethics and Management and relevance of Ethics and Values in Business world.	2	Emp/S	
CO2	To understand the basic concept of Organization Culture and Ethics. Commercial Banking. To Extend the knowledge about Work Ethics, Stress at Workplace and Secular versus Spiritual Values in Management.	2	Emp/S	
CO3	To know about the Ethical Issues in Business. To understand the concept of Capitalism and market systems and Gandhian Approach in Management and Trusteeship. To know about the Ethical Issues related with Advertisement and Marketing, Relevance of Values in Management.	3	Emp/S	
CO4	To provide a learning about the Ethical Values In Business Environment. To know about the Relationship between Ethics & Corporate Excellence, Corporate Mission Statement, Code of Ethics, Organizational Culture.	3	Emp/S	
CO5	To extend the knowledge about Corporate Social Responsibility. To provide the knowledge related to social Responsibility of business with respect to different stakeholders, Arguments for and against Social responsibility of business.	4	Emp/S	

Course Name	**Research Methodology**			
Course Code	**BC3603**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	Understand some basics concepts of research and its methodology.	2	Emp/S	
CO2	Identify appropriate research designs depending upon the objectives of research.	2	Emp/S	
CO3	To develop a detailed research proposal and summer internship projects.	3	Emp/S	
CO4	To know how to collect data and evaluate it using different statistical tests.	3	Emp/S	
CO5	To develop a questionnaire and to identify which test should be applied to which data set.	4	Emp/S	

Course Name	**Entrepreneurship Development**			
Course Code	**BB3602**			

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)	
CO1	To understand basic overview of kind of Entrepreneurship. To analyze the common mistakes made by new entrepreneurs.	2	Emp/S/Ent	
CO2	To recognize and understand the various methods of estimating financial requirements. To understand the different role played by different agencies of government.	2	Emp/S/Ent	
CO3	To understand the assessment of various opportunities in various sectors. To understand the different methods of idea generation. To create solutions how to start business with low investments.	3	Emp/S/Ent	
CO4	To analyze and understand the different aspects of economic, financial, market and technological feasibility.	3	Emp/S/Ent	
CO5	To understand the various forms of business ownership.	4	Emp/S/Ent	

Course Name	**Human Resource Management**			
Course Code	**BC3605**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To analyze the competencies of HR Manager.	2	Emp/S/Ent	
CO2	To understand the concept of HRM	2	Emp/S/Ent	
CO3	To recognize and understand the human resource forecasting. To understand the logic of job design and job specification.	3	Emp/S/Ent	
CO4	To create the new methods of recruitment. To understand the interview patterns.	3	Emp/S/Ent	
CO5	To analyze and understand the different methods of pay band systems.	3	Emp/S/Ent	

Course Name	**Security Analysis and Portfolio Management**			
Course Code	**BH3607**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	Acquire knowledge of concept of investment in Equity, Preference and Debt instruments .	2	S	
CO2	Acquire knowledge of risk associated with investment into Equity, Preference and Debt.	2	S	

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CO3	Skill to apply risk management and portfolio management.	3	S	
CO4	Skill to analyze investment scenario and to identify right time to buy assets for investment and right time to book profit on investment,	3	S	
CO5	Skill to evaluate investment opportunities and risk associated with it.	4	S	

Course Name	**Banking Operation Mangement**			
Course Code	**BI3608**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To understand the basic concepts and theory of the Banking operation management.	2	Emp/S/Ent	
CO2	To understand and create the deposit products and schemes and its structure and how it is operated and managed by the banks.	2	Emp/S/Ent	
CO3	To understand of the credit policy, its need and evaluate the culture of credit followed by the banks in its operations.	3	Emp/S/Ent	
CO4	To understand and analyse the rural banking operations in terms of co- operative, agricultural and rural development.	3	Emp/S/Ent	
CO5	To understand and evaluate about various legal aspects of NPAs and SARFAESI Act.	4	Emp/S/Ent	

Course Name	**Fundamental of General and Medical Insurance**			
Course Code	**BI3609**			
Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**	
CO1	To understand the purpose and principles of life insurance.	2	Emp/S/Ent	
CO2	To categories the various types of general insurance.	2	Emp/S/Ent	
CO3	To identify risk management exposure from insurance product perspective	3	Emp/S/Ent	
CO4	To explain the importance of health insurance.	3	Emp/S/Ent	
CO5	To illustrate pricing models & techniques of health insurance.	4	Emp/S/Ent	

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Program Name: **Bachelor of Arts (Hons) Specialization in English/ Economics/Pyschology**

Course Name **Human Values and Ethics**

Course Code **PS3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will understand the significance of value inputs in a classroom, distinguish between values and skills, understand the need, basic guidelines, content and process of value education, explore the meaning of happiness and prosperity and do a correct appraisal of the current scenario in the society	2	None
CO2	Distinguish between the Self and the Body, understand the meaning of Harmony in the Self the Coexistence of Self and Body.	2	S
CO3	Understand the value of harmonious relationship based on trust, respect and other naturally acceptable feelings in human1human relationships and explore their role in ensuring a harmonious society.	2	S
CO4	Understand the harmony in nature and existence, and work out their mutually fulfilling participation in the nature.	2	S
CO5	Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.	2	S

Course Name **Principles of Micro Economics**

Course Code **EM3104**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the fundament of Microeconomic concepts and get introduced to the framework for learning about consumer behavior and analyzing consumer decisions.	2	None

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CO2	To study about firms behavior and their decisions about optimal production considering the different laws of production.	2	S
CO3	Understand the role1played by cost and revenue in long run and short run and thus direct firms and industries for minimization of cost and maximization of revenue.	2	S
CO4	Analyze the performance of firms under different market structures and apply the knowledge in determination of optimum level of output at a optimum price level.	4	En
CO5	Analyze how factors prices were determined in factor input markets, leads to selection of best factor input by the producer.	4	None

Course Name **Communicative English**
Course Code **EG3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To enhance the learner's communication skills by giving adequate exposure in LSR listening, speaking,reading and writing skills and the related sub skills.	2	S
CO2	To help the learners recognize and operate in various styles and registers in English.	2	S
CO3	To help the learner get rid of his present flaws and mistakes in pronunciation and grammar.	2	S
CO4	To help the learner identify and repair the voids in his present vocabulary and pronunciation targeting those specific array of words which create a barrier in his thought process.	2	S
CO5	To impart better writing skills by sensitizing the learners to the dynamics of effective writing.	2	S

Course Name **Fundamental Psychological Processes I**
Course Code **PS3108**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will understand basic psychological concepts: domains, history and scope of psychology	2	Emp
CO2	Students will study about neuropsychology and brain structure and how they are involved with cognitive psychology.	2	S
CO3	Students will understand how psychology is different from phylosphy and considered as science.	2	S
CO4	Students will be able to recognize and apply various perception and attention theories	2	Ent
CO5	Students will be able to apply different motivational theories to day to day life.	1	None

Course Name **Communication and Professional Skill - I**
Course Code **VP3101**

Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)**
CO1	On the completion of course the Students will beable to write, understand, analyze and create sentences in professional language (English). Students' horizon will be expanded with the correct usage of Grammar in writing and speaking, and will be able to improvise theirspeaking ability.	2	Ent/Emp/S
CO2	Students will be able to take part in daily routine conversation in English.	2	Ent/Emp/S
CO3	Students will be able to understand and partiallybe groomed in corporate etiquettes and culture	2	Ent/Emp/S
CO4	This course will aid the students to learn words and form strong vocabulary, use them correctly ina sentence while speaking and writing. Moreover,understand their meaning in the text	2	Ent/Emp/S
CO5	The Students will learn to use strategies to listen actively and able to distinguish more important ideas from less important ones. Implement them while participating in the discussions. Henceforth,It yields the improvement in understanding, analyzing, creating and implementing the learning into real world encounter, effectively.	3	Ent/Emp/S

Course Name **Fundamentals of Computer Applications**
Course Code **CS3102**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about computer and its components.	2	None
CO2	Students should be able to learn about computer arithmetic operations and number system.	2	None
CO3	Students should be able to learn about flow chart, algorithms and their working.	2	S
CO4	Students should be able to learn about MS DOS and its various commands.	2	S
CO5	Students should be able to learn about windows and various media devices.	1	S

Course Name **Fundamentals of Computer Applications Lab**
Course Code **CS3141**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the operation of DoS commands Internal.	2	S
CO2	Students should be able to learn the operation of DoS commands External.	2	S
CO3	Students should be able to learn about Windows explorer.	2	S

Course Name **Introduction to Theory of Psychology**
Course Code **PS3107**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will understand basic psychological concepts: domains, history and scope of psychology	1	S
CO2	Students will understand the role of behaviorism in psychology.	1	S

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CO3	Students will be able to apply various humanistic approaches in the field of counselling.	3	Emp.
CO4	Students will be able to apply the rules of gestalt psychology while perceiving daily situations.	3	S
CO5	Students will learn about different tools of data collection in research in the field of psychology.	3	S

Course Name **Psychology Practical Training-I**
Course Code **PS3140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to perform techniques of memorization.	3	S
CO2	Students will learn to apply psychometric testings	3	Emp.
CO3	Students will be able to learn different trial and error methods of learning.	2	S
CO4	Students will be able to gain practical implication of various techniques and psychotherapies	3	Emp.
CO5	Students will understand basics of counselling and steps of effective counselling.	2	Emp.

Course Name **English Poetry & Drama (14th-18thCentury)**
Course Code **EG3106**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To introduce the student to British poetry and drama from the age of Chaucer to the age of pope.	2	S
CO2	To comprehend the development of trends in British drama and poetry	1	S
CO3	To view British literature in its socio-cultural and political contexts.	2	S
CO4	To understand the theme, structure and style in British poetry and drama.	2	S
CO5	To understand the socio-political context of the period from 14th century -17th century	2	S

Course Name **Indian Writing in English**
Course Code **EG3107**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the generation and circulation of Indian literature in English language.	2	S
CO2	Students will be able to read and understand some of the major writers of Indian Literature in English language.	1	S
CO3	Students will be able to analyze and see the Indian society through different lenses.	2	S
CO4	Students will be able to critically analyze the whole spectrum of Indian literature.	2	S
CO5	Students will be able to write detailed analytical and descriptive answers related to Indian Literature in English language.	2	S

Course Name **Mathematical & Statistical Tools for Economics**
Course Code **EM3105**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Analyze statistical data graphically using frequency distributions and cumulative frequency distributions.	4	Em
CO2	Analyze statistical data using measures of central tendency, dispersion and location	4	S
CO3	Use the basic probability rules and translate real-world problems into probability models	3	S
CO4	Calculate and interpret the correlation and regression between two or more variables. Employee the principles of linear regression and correlation, including least square method, predicting a particular value of Y for a given value of X and significance of the correlation coefficient.	3	S
CO5	Use the Index number concept to translate and solve real-word problem.	3	S

Course Name **MS-Excel theory & Lab**
Course Code **CS3120**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Seize the basic foundational functions of Excel: the Excel user interface, the basic terminology of Excel.	2	S
CO2	Gets the skill of working with formulas and functions - learns how to write them, use them to perform calculations	2	S
CO3	Uses font formatting, borders, alignment, number formatting, and Excel styles and themes.	2	S
CO4	Extracts and modifies data with search and replace, uses conditional formatting to highlight specific data	2	S
CO5	Optimises a spreadsheet for printing by managing margins, orientation, headers and footers, and more.	1	S

Course Name **Environmental Studies**
Course Code **CY3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	2	None
CO2	Students should be able to understand the solutions related to environmental problems related with the renewable & non1renewable resources.	2	S
CO3	Students should be able to understand the importance of ecosystem and biodiversity and the method of conservation of biological diversity.	2	S
CO4	Students should be able to understand different components of the environment and their function and the effects pollution on environment and should be able to understand the concept of sustainable development.	2	En
CO5	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	2	None

Course Name **Indian Knowledge System**
Course Code **HU3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will be able to understand the Indian Knowledge System such as historical development, sources and scope.	2	S
CO2	The students will be able to understand the vocabulary system of Indian knowledge system.	2	S
CO3	The students will be able to understand and apply the philosophical foundations and methods of IKS.	3	N
CO4	The students will be able to execute the case studies based on the Indian knowledge system.	3	N
CO5	The students will be able to understand the influence of Indian Knowledge System on world.	2	S

Course Name **Fundamental Psychological Processes-II**
Course Code **PS3206**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students actively learn to investigate dynamic interrelations of man and environment. Making students to learn and understand the procedures of memory and how to improve memory.	2	Em
CO2	Psychology can be defined as a study of behavior, mind, and mental conditions of human beings. To this end Psychology involves study of mental processes, motives, reactions, feelings, conflict resolution, crisis management, group think, motivation, and nature of mind.	2	S
CO3	Aspiring students should possess the 3 P's of psychology1 Patience, Perseverance and Passion. These are the essentials to understand the patients. Moreover they should have scientific aptitude and analytical thinking to help in diagnosis and devise solutions for their maladies. Enhancing intelligence and learning different strategies of intensifying IQ.	2	S

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CO4	The world is constantly changing in its social1economic, political and cultural landscape thereby rendering human life more complex. These events continually impact human behavior producing depression and anxiety. Thus, psychology can help individuals to learn and adapt coping strategy.	2	S
CO5	The students will be able to learn the art of counseling and handling patients with different psychological problems and will be able to apply those practical aspects in their professional areas.	3	S

Course Name **Indian Economics**
Course Code **EM3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Develop ideas of the basic characteristics of Indian economy, its potential on natural resources	3	None
CO2	Understand agriculture as the foundation of economic growth and development, analyze the progress and changing nature of agricultural sector and its contribution to the economy as a whole	2	S
CO3	Analyze the growth of Industrial sector in India.	4	S
CO4	Analyze the impact of new Industrial policies and foreign policies on the economy of India.	4	S
CO5	Understand the revolution in the taxation system of India and Attain the advantages and knowledge of public investments and other government expenditures.	2	S

Course Name **Disaster management**
Course Code **CE3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand the basic concepts of disasters and its relationships with development.	3	None

CO2	Students will be able to understand the approaches of Disaster Risk Reduction (DRR) and the relationship between vulnerability, disasters, disaster prevention and risk reduction.	2	S
CO3	Students will be able to understand the Medical and Psycho1Social Response to Disasters.	2	S
CO4	Students will be able to prevent and control Public Health consequences of Disasters	2	S
CO5	Students will have awareness of Disaster Risk Management institutional processes in India	2	S

Course Name **Communication and Professional Skills-II**
Course Code **VP3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	After the course the students will be able to write/understand and create sentences in English ofall tenses, Students will heighten their awareness of correct usage of English grammar in writing andspeaking and will be able to improve their speaking ability in English both in terms of fluency and comprehensibility.	2	Ent/Emp/S
CO2	Students will be able to take part in daily routineconversation in English.	2	Ent/Emp/S
CO3	Students will be able to understand and partially begroomed in corporate etiquettes and culture	2	Ent/Emp/S
CO4	This course will aid the students to learn new vocabulary words, use them correctly in a sentence while speaking and writing, , and understand theirmeaning in the text	3	Ent/Emp/S
CO5	The students will learn to use strategies to listen actively, will be able to distinguish more importantideas from less important ones and will participate in the discussions.	3	Ent/Emp/S

Course Name **British Literature (18th-19th Century)-excluding Romantic Literature**
Course Code **EG3206**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

CO1	To introduce the student to British poetry and drama from the Age of Chaucer to the Age of Pope.	2	S
CO2	To comprehend the development of trends in British drama and poetry.	2	S
CO3	To view British literature in its socio-cultural and political contexts.	2	S
CO4	To understand the theme, structure and style in British poetry and drama.	2	S
CO5	To acquaint students with the Jacobean and the 18th century British literature.	2	S

Course Name **Principles of Macro Economics**
Course Code **EM3204**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will learn about the concepts of macroeconomics and understand the meaning and components of national income	2	Em
CO2	Students should be able to understand the solutions related to environmental problems related with the renewable & non1renewable resources.	2	S
CO3	Students should be able to understand the importance of ecosystem and biodiversity and the method of conservation of biological diversity.	3	S
CO4	Students should be able to understand different components of the environment and their function and the effects pollution on environment and should be able to understand the concept of sustainable development.	4	S
CO5	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	2	S

Course Name **Money & Banking**
Course Code **EM3206**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	To understand the economic principles underlying the working of financial institutions.	2	Em
CO2	To understand how central banks, conduct monetary policy	2	S
CO3	To use models to think about monetary and macroeconomic issues	3	S
CO4	To conduct a theoretical analysis of real-world issues and phenomena.	3	En
CO5	To understand and analyse the monetary reforms in transforming the economy.	4	None

Course Name **Tableau Visualization**
Course Code **CS3220**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Proficiently navigate Tableau using a full suite of commands	3	S
CO2	Analyse data and calculate with tables using Tableau commands	3	S
CO3	Generate the most meaningful visualizations.	3	S
CO4	Develop interactive dashboards	3	S
CO5	Deliver insightful stories visually in addressing a business problem.	3	S

Course Name **Theory and Systems of Psychology**
Course Code **PS3207**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students actively learn to investigate dynamic interrelations of man and environment. This paper provides an in-depth overview of the dominant theoretical and empirical trends in a major subfield of psychology.	2	S
CO2	Demonstrating an ability to understand and distinguish major theoretical perspectives and methodological approaches by using personality theories and approaches. Also, learning how to measure personality types and traits of an individual.	3	S

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CO3	Developing an ability to identify the milestones in diverse domains of human development across life stages. Learning various techniques of improving memory by indulging into different memory theories.	2	None
CO4	Understanding the contributions of socio-cultural context toward shaping human development. Learning Indian perspectives of psychology and different methodologies to enhance lifestyle by using various techniques like yoga, meditation, etc.	4	None
CO5	Acquiring an ability to decipher key developmental challenges and issues faced in the Indian societal context. Able to enhance self regulation, self concept and determination in one self.	4	S

Course Name **Psychology Practical Training-II**
Course Code **PS3240**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to perform techniques of memorization.	3	Emp.
CO2	Students will learn to apply psychometric testings.	3	Emp.
CO3	Students will be able to learn different trial and error methods of learning.	2	S
CO4	Students will be able to gain practical implication of various techniques and psychotherapies	3	S
CO5	Students will understand basics of counselling and steps of effective counselling.	2	Emp.

Course Name **American Literature**
Course Code **EG3207**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Identify key ideas, representative authors and works, significant historical or cultural events, and characteristic perspectives or attitudes expressed in the literature of America.	2	S

CO2	Analyze literary works as expressions of individual or communal values within the social, political, cultural, or religious contexts of different literary periods.	4	S
CO3	Demonstrate knowledge of the development of characteristic forms or styles of expression during different historical periods in different regions.	2	S
CO4	Articulate the aesthetic principles that guide the scope and variety of works in the arts and humanities.	2	S
CO5	Analyze and discuss works of American literature from a range of genres (e.g. poetry, nonfiction, slave narrative, captivity narrative, literary fiction, genre fiction, sermon, public proclamations, letters, etc.).	4	S

Course Name **United Nations Development Programme**
Course Code **HU3202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about the Structure, Mission, Vision and Goals of UNDP	2	S
CO2	Equip the students with the knowledge of sustainable livelihoods for inclusive economic growth.	2	S
CO3	Students will learn and explore about the Human Development index to promote well being at all ages.	2	S
CO4	To impart better education on SDGs goals focusing on Gender Equality and Provide Access to Justice to All and Build Effective.	3	N
CO5	Students will develop knowledge regarding environment sustainability.	3	N

Course Name **Developmental Economics**
Course Code **EM3307**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To Develop the ability to explain core development economics concepts and measures of economics change, growth, and development	3	S
CO2	To Develop the ability to explain core economic models.	3	S
CO3	To understand the concept of Land, Labor and Credit Markets	2	S

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CO4	To understand demographic concept of development economics.	2	S
CO5	To Demonstrate awareness of global, historical, and institutional forces.	3	S

Course Name **Introduction to Developmental Psychology**
Course Code **PS3304**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Be able to demonstrate a broad working knowledge of developmental psychology by providing an overview of basic principles related to biosocial, cognitive and psychosocial changes throughout the entire lifespan.	2	S
CO2	Understand and Learn relation and function along with their types and properties. Learn levels of Generality, Functions of Demand, Production, cost, Revenue, Profit. Learn and solve the limit and Continuity of functions.	2	S
CO3	Identify and apply developmental concepts to everyday life	3	S
CO4	Demonstrate improved critical thinking and communication skills	2	None
CO5	Learn and solve linear programming, Optimization of resources, Duality, Input1Output model	2	S

Course Name **Numerical Ability**
Course Code **VP3301**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1			
CO2			
CO3			
CO4			
CO5			

Course Name **Mathematical Economics**
Course Code **EM3305**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Learn the numbers and types of numbers, set and types of sets, operations on sets, Cartesian product of sets, Intervals	2	None
CO2	Understand and Learn relation and function along with their types and properties. Learn levels of Generality, Functions of Demand, Production, cost, Revenue, Profit. Learn and solve the limit and Continuity of functions.	2	S
CO3	Learn and solve the composition of functions, Inverse functions, Exponential functions, Logarithm functions	2	None
CO4	Learn matrices, transposes and Elementary transform of matrices. Learn and solve Determinant, Singular and non singular matrices, Minors, Adjoint and Inverse of matrices. Cramer's rule, Application to market and nation income models	2	None
CO5	Learn and solve linear programming, Optimization of resources, Duality, Input1Output model	2	S

Course Name **Advance Macro Economics**
Course Code **EM3306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Evaluate and analyze the fluctuations in good and money market through IS1LM model and deduce the exogenous normal rigidity in wage settlement.	4	S
CO2	Map the Rational Expectations and Implications for Economic Policy through different models.	4	S
CO3	Analyze the models of Investment and IS1Lm in dynamic situation of Open economy.	4	S
CO4	Analyze the new Keynesian theories on growth and Inflation to understand the better working of the economy.	4	S
CO5	Student will analyze "how the economy recovers after the crises" by considering some major crises in the history.	4	S

Course Name **Environmental Economics**
Course Code **EM3308**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the link between the economy and environment and factor responsible for market failure.	2	S
CO2	To analyse the different economic incentives for environmental protection.	4	S
CO3	To develop the ability to evaluate the environmental problems.	3	S
CO4	To understand about the different environmental problem and also understand about the international environment agreement.	2	S
CO5	To understand about the sustainable development and effect of economic growth on environment.	2	S

Course Name **Data Analysis Using R**
Course Code **CS3320**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the basics of R programming	2	S
CO2	Understand and apply the loops & Functions in the data	2	S
CO3	Learn to form the data structure.	3	S
CO4	Learn to transpose, reshaping and bringing an interface to data.	2	S
CO5	Learn &analyse data through data visualization techniques.	4	S

Course Name **Internship-1**
Course Code **EM3370**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Assess interests and abilities in their field of study.	4	S

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CO2	Learn to appreciate work and its function in the economy	4	S
CO3	Identify, write down, and carry out performance objectives (mutually agreed upon by the employer, the MCC experiential learning supervisor, and the student) related to their job assignment.	4	S
CO4	Acquire employment contacts leading directly to a full-time job following graduation from college	4	S
CO5	Develop communication, interpersonal and other critical skills in the job interview process.	4	S

Course Name **Educational Psychology**
Course Code **PS3306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students actively learn to investigate dynamic interrelations of man and environment. This paper provides an in-depth overview of the dominant theoretical and empirical trends in a major subfield of psychology- developmental psychology.	4	S
CO2	Demonstrating an ability to understand and distinguish major theoretical perspectives and methodological approaches in human development	3	S
CO3	Developing an ability to identify the milestones in diverse domains of human development across life stages.	4	None
CO4	Understanding the contributions of socio-cultural context toward shaping human development.	4	S
CO5	Acquiring an ability to decipher key developmental challenges and issues faced in the Indian societal context	4	None

Course Name **Social Psychology**
Course Code **PS3308**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand major theories, concepts, perspectives and empirical findings in social psychology.	1	S

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CO2	Students will be able to explain how psychological theory and empirical research are used to help explain human behavior in individuals and groups.	2	S
CO3	Students will be able to learn how researchers utilize methods and techniques to investigate empirical questions in social psychology.	1	S
CO4	students will be able to acquire and hone critical thinking skills to dissect and integrate scientific information.	3	S
CO5	Student will analyze "how the economy recovers after the crises" by considering some major crises in the history.	4	S

Course Name **Psychology Practical Training – III Lab**
Course Code **PS3340**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to perform techniques of memorization.	3	s
CO2	Students will learn to apply psychometeric testings.	3	s
CO3	Students will be able to learn different trial and error methods of learning.	2	s
CO4	Students will be able to gain practical implication of various techniques and psychotherapies	3	s
CO5	Students will understand basics of counselling and steps of effective counselling.	3	s

Course Name **British Literature (20th Century)**
Course Code **EG3306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the prevalent major religious, political and social movements from 14th to 19th century and their influence on literature.	2	S
CO2	Understand various interpretative techniques used in literary texts of varied genres	2	S
CO3	Comprehend the view points of author in terms of poetry and learn to express emotion in a controlled way.	2	S

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CO4	Develop skills of learning poetic language and structure to understand character and themes	2	S
CO5	Understand and remember the writing styles of contemporary playwrights of 20th century	2	S

Course Name **Classical Literature**
Course Code **EG3307**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Gain an enhanced knowledge and get acquaintance with classical texts from Europe- with particular focus on ancient Greek and Roman texts.	2	S
CO2	gain guidelines on observing how literature is a practice embedded in a socio-political, economic and cultural context.	2	S
CO3	Demonstrate an ability to read and understand a variety of classical literary texts.	2	S
CO4	Demonstrate an ability to conduct research on classical Courses by using different reference works and sources in book form and on the Internet.	2	S
CO5	able to answer descriptive and critical questions based on Classical texts and literature.	1& 2	S

Course Name **Modern Literature**
Course Code **EG3308**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the prevalent major religious, political and social movements from 14th to 19th century and their influence on literature.	2	S
CO2	Understand various interpretative techniques used in literary texts of varied genres	2	S
CO3	Comprehend the view points of author in terms of poetry and learn to express emotion in a controlled way.	2	S
CO4	Develop skills of learning poetic language and structure to understand character and themes	2	S
CO5	Understand and remember the writing styles of contemporary playwrights of 20th century	1& 2	S

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Course Name **Numerical Ability**
Course Code **VP3301**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	This program leads to improve advance numerical skills of the students to do calculativepart in short period of time.	2	Ent/Emp/S
CO2	Understanding of advance question of directions,blood relations, ranking, coding-decoding, calendar, clock enhance the analyzing power of students.	3	Ent/Emp/S
CO3	Understanding how a person efficiency impacton TIME AND WORK, And let to know the power of compounding in COMPUND INTEREST, also Know about the percentage calculation in various aspects.	5	Ent/Emp/S
CO4	Calculate advance problem of Time Speed andDistance in various aspects,, how Selling priceand Cost price lead to profit or lose.	4	Ent/Emp/S
CO5	With the help of this student can qualify for various competitive exams (BANK, SSC, POLICE, DEFENCE, ETC.) This will be helpfulfor written exam of various companies.	4	Ent/Emp/S

Course Name **Aptitude and Reasoning Ability**
Course Code **VP3401**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	This program lead to improve numerical skills of the students to do calculative part in short period of time.	2	Ent/Emp/S
CO2	Understanding of directions, blood relations, ranking, coding-decoding, calendar, clock enhance the analyzingpower of students	3	Ent/Emp/S
CO3	Draw conclusions or make decisions in quantitatively based situations that are dependent upon multiple factors.	5	Ent/Emp/S
CO4	Students will draw conclusions and/or make decisions by analyzing and/or critiquing mathematical models.	4	Ent/Emp/S
CO5	This will be helpful for written exam of various companies.	4	Ent/Emp/S

Course Name **Science Fiction and Fantasy**

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Course Code **EG3408**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Analyze works of science fiction from a variety of cultures.	2	S
CO2	Describe the common conventions of the genre.	2	S
CO3	Explain the historical development of science fiction.	2	S
CO4	Describe the relationship of science fiction to mainstream literature.	2	S
CO5	Explain the connection between science fiction and the impact of changing technology and social systems on people.	1& 2	S

Course Name **Economics of Public Finance**
Course Code **EM3405**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the sources of finance both public and private and the role of government in the economic and social aspects of its society.	2	None
CO2	To have conceptual clarity of public expenditure and revenue theories and to analyse the reasons for the growth in India's public Expenditure.	4	S
CO3	Understand the needs of public borrowing from all possible sources to meet necessary public investment/expenditures and to Deliver effectively the preparation of budget and how they are passed in the house.	3	S
CO4	Understand the different Fiscal policies and analyse the role played by them in the development of nation.	2	S
CO5	Understand the financial relations between the country's federal government system and other units of government.	2	S

Course Name **Data Analysis using Python**
Course Code **CS3420**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the basics of python for performing data analysis.	2	S
CO2	Understanding the data, performing pre-processing and processing	2	S
CO3	Understand data visualization to get insights from data.	2	S
CO4	Use different python packages for mathematical, scientific applications and for web data analysis.	2	S
CO5	Develop the model for data analysis and evaluate the model performance.	3	S

Course Name **International Economics**
Course Code **EM 3406**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Gain an enhanced knowledge and get acquaintance with classical texts from Europe- with particular focus on ancient Greek and Roman texts.	2	S
CO2	gain guidelines on observing how literature is a practice embedded in a socio-political, economic and cultural context.	2	S
CO3	Demonstrate an ability to read and understand a variety of classical literary texts.	2	S
CO4	Demonstrate an ability to conduct research on classical Courses by using different reference works and sources in book form and on the Internet.	2	S
CO5	able to answer descriptive and critical questions based on Classical texts and literature.	1& 2	S

Course Name **Calculus for Economics**
Course Code **EM3404**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Summarizing important issues in international trade, history and present state of world trade flows, history of the development of trade theory.	2	None
CO2	Students will learn the international trade theories.	4	None
CO3	To understand the different instruments of trade policy.	3	S
CO4	Students will be able to learn about fixed and flexible exchange rate system, tariff, and non1tariff policy.	2	S
CO5	To learn about the different international organization such as WTO and IMF.	1	S

Course Name **Labour Economics**
Course Code **EM3407**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To analyse the factors or condition leading to competitive equilibrium in Labor market.	4	None
CO2	To analyse the importance of education in improving human capital.	4	None
CO3	To analyse the types of Discrimination, happen in Labour market.	4	S
CO4	To analyse the role of labor unions in the market	4	S
CO5	To analyse the factors leading to migration.	4	S

Course Name **Health Psychology**
Course Code **PS3406**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	learners will get basic knowledge of what Health psychology is, How health and psychology correlates.	3	None

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CO2	Learners will get basic knowledge of Health Behaviors and models of Health behavior.	3	None
CO3	learners will get knowledge of Health prevention at different level.	2	S
CO4	Learners will understand how a person's health can be affected by their behavior, given certain biological factors, social factors and environmental factors.	4	None
CO5	Learner will get knowledge about development of the field of health psychology in general and in India.	4	S

Course Name **Understanding Psychological Disorders**
Course Code **PS3407**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Learners will be able to better understand Abnormal behaviour through knowing different models and also know the importance of assessment, diagnosis in clinical settings	2	S
CO2	Learners will know about anxiety and stress related and their a etiology, prevalence and treatments	2	S
CO3	Learners will know about mood disorders and disorders of sexual variants and their etiology, prevalence and treatments	2	Emp
CO4	Learners will know about anxiety and somatic and dissociative disorders and their etiology, prevalence and treatments	2	Emp
CO5	Learners will know about Schizophrenia spectrum and Substance abuse disorders and their etiology, prevalence and treatments	2	Emp

Course Name **Organizational Behavior**
Course Code **PS3408**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Demonstrate the applicability of the concept of organizational behavior to understand the Behavior of people in the organization.	3	None

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CO2	Demonstrate the applicability of the concept of organizational behavior to understand the Behavior of people in the organization.	3	None
CO3	Demonstrate the applicability of analyzing the complexities associated with management of Individual behavior in the organization.	2	S
CO4	Demonstrate the applicability of analyzing the complexities associated with management of Individual behavior in the organization	4	S
CO5	Understanding the complexities associated with management of the group behavior in the	4	None

Course Name **Psychology Practical Training -IV**
Course Code **PS3440**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to assess and apply Research Attitude Scale	3	S
CO2	Students will be able to assess and apply Psychological Counseling Need Scale	3	S
CO3	Students will be able to assess and apply Parent Child Relationship Scale	3	S
CO4	Students will be able to assess and apply Sentence Completion Test	3	S
CO5	Students will be able to assess and apply Distinctive (Specific Abilities) Aptitude Test	3	S

Course Name **British Romantic Literature**
Course Code **EG3406**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Analyze British Literature written from the early Middle Ages to the 18th Century.	2	S
CO2	Interpret literature in the context of its historical period.	2	S
CO3	Interpret literary works using critical perspectives.	2	S
CO4	Write a thesis-driven essay using literature as a primary source.	2	S
CO5	Apply appropriate formal conventions when writing about literature	2	S

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Course Name **Modern European Drama**
Course Code **EG3407**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Compare and contrast the different ideological constructs that have shaped the modern world through the medium of modern drama	2	S
CO2	Recall and analyse the decline of Romanticism and the beginning of realism	2	S
CO3	Define and analyze the various trends involved in the formation of Modern European Drama, like realism, naturalism, notions of fact and illusion, meta theatre, aesthetics of silence	2	S
CO4	Compare and analyse the different theatrical modes like epic theatre, absurd theatre, theatre of cruelty and poor theatre	2	S
CO5	Understand the different modern dramatists and their contribution to the ideological notions that inform the postmodern world	2	S

Course Name **Research Methodology**
Course Code **EM3505**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the types of Research, their measurement and their scales.	2	S
CO2	To understand the methodology and procedure of deigning the procedure of Research.	2	S
CO3	To understand the different types of sampling techniques and its implication in real world through questionnaire.	3	S
CO4	To understand and analyze the concept of Hypothesis testing.	2	S
CO5	To apply the statistical tools using SPSS and GRETAL	3	S

Course Name **Contemporary Economic Thought**
Course Code **EM3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand and analyze the ideology and the contribution of the early economic schools.	4	S
CO2	To understand and analyze the ideology of Keynes and Anti Keynes and their contribution to the economy.	4	S
CO3	To understand and analyze the work of Nobel Laurent and check where the economy is going.	4	S
CO4	To understand and analyze the work of renowned Indian Economist.	4	S
CO5	To understand and analyze the work of renowned Indian Economist.	4	S

Course Name **Community Psychology**
Course Code **PS3506**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Provide an understanding of what community psychology is and how it compares to other sub- disciplines of psychology and other social sciences.	2	S
CO2	Develop students' knowledge of community psychology's history and theories and link theories to practices through exemplary research and interventions.	4	S
CO3	Foster students' ability to integrate theoretical frameworks into their future practices.	2	S
CO4	Critically analyze the role of psychologists within social settings and increase students' critical thinking skills.	3	S
CO5	Analyze the meaning of change in social settings and promote a sense of social responsibility	3	S

Course Name **Statistics in Psychology**
Course Code **PS3508**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand basic concept of statistical data.	2	S
CO2	To understand the measures of central tendencies.	2	Emp.
CO3	To understand the various measures of deviations.	2	S
CO4	Describe and analyze the correlation and regression problems.	3	S/Emp.
CO5	To assess and apply the knowledge of parametric and non-parametric test to solvre the numerical problems.	3	S

Course Name **Psychology Practical Training – V**
Course Code **PS3540**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to measure and/or assess attitude.	3	S
CO2	Students will learn to apply projective test	3	S
CO3	Students will be able to measure and/or assess Job satisfaction level	3	S
CO4	Students will be able to measure and/or assess level of work- motivation.	3	S
CO5	Students will be able to apply psychometric tools	3	S

Course Name **Indian Literature in Translation**
Course Code **EG3506**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand and remember ancient Indian society through rich Indian literary texts.	2	S
CO2	Understand the significance of learning skills and acknowledge socio-cultural discrimination prevailing in the ancient Indian.	2	S

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CO3	Learn various tools and techniques applied in Indian poetry and would develop insights of poetry.	3	S
CO4	Would become critical while going through the various characters of epic, story, essay and poem.	4	S
CO5	Would be able to analyze, interpret and answer critical and descriptive questions related to the texts	4	S

Course Name **Women's Writing**
Course Code **EG3507**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the prevalent major religious, political and social movements from 14th to 19th century and their influence on literature.	2	S
CO2	Understand various interpretative techniques used in literary texts of varied genres	2	S
CO3	Comprehend the view points of author in terms of poetry and learn to express emotion in a controlled way.	2	S
CO4	Develop skills of learning poetic language and structure to understand character and themes	2	S
CO5	Understand and remember the writing styles of contemporary playwrights of 20th century	2	S

Course Name **Financial Economics**
Course Code **EM3520**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will understand credit and financial system.	2	S
CO2	Student will develop the critical thinking about the financial market.	3	S
CO3	Student will understand and analyze the role of Non1 Banking Financial Intermediaries & Fintech companies on the economic development of country (special reference on India).	4	S
CO4	Student will understand about Reserve Bank of India, its functions and commercial bank.	2	S

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CO5	Student will develop the insight to estimate the elements of International Finance.	3	S

Course Name **Game Theory**
Course Code **EM3517**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the basis of game theory.	2	S
CO2	To understand the apply the concept of Extensive Form Games with perfect information.	2	S
CO3	To understand and apply the concept of Simultaneous form games with imperfect information.	2	S
CO4	To understand and apply the concept of extensive form games with imperfect information.	2	S
CO5	To understand the concept of information economics.	2	S

Course Name **Basic Econometrics**
Course Code **EM3521**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the nature and scope of econometrics.	2	S
CO2	To understand the simple linear regression model.	2	S
CO3	To understand the multiple linear regression model.	2	S
CO4	To develop the understanding of Multi Collinearity & Heteroscedasticity	3	S
CO5	To develop the understanding of Autocorrelation	3	S

Course Name **Law & Economics**
Course Code **EM3519**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the basics and need for law and Economics.	2	S

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CO2	To understand the basics notions of Law and Economics.	2	S
CO3	To develop critical thinking about contact and tort law.	2	S
CO4	To analyze the need of law by viewing economics issues.	2	S
CO5	To understand and analyze the constitution and HR law.	2	S

Course Name **Positive Psychology**
Course Code **PS3516**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Learners will get acquainted to the field of psychology thoroughly.	2	S
CO2	Students will get acquainted with the basic concepts of positive psychology	3	S
CO3	Students will learn about the elements of positive psychology	2	Emp.
CO4	Students will learn regarding processes related to positive emotions.	3	Emp./S.
CO5	Student will learn about the techniques of positive psychology	3	S

Course Name **Human Resource Management**
Course Code **PS3517**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the concept of HRM & HRD	2	S
CO2	To create the new methods of recruitment. To understand the interview patterns	4	Emp.
CO3	To analyze and understand Globalization & international HRM	2	S
CO4	To analyze and understand the concept of organizational change & development	3	S
CO5	To understand the concept of Industrial Relations	3	Emp.

Course Name **Sports Psychology**
Course Code **PS3520**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Learners will understand the role of the brain in human performance and apply psychological techniques and theories to human performance within diverse populations and Design, conduct, and evaluate research that address psychological questions	2	S
CO2	Learners will be able to reflect upon motivational psychology as applied to sports activities and Personality factors that effects performance.	3	S
CO3	Learners will be able to reflect upon the impact and management of emotions on performance of sportsperson.	3	S
CO4	Learners will get basic knowledge of Effective physical, and psychological techniques as they relate to human performance	4	S/Emp.
CO5	Learners will get knowledge of applied mental skill training in sports.	5	Emp./S.

Course Name **Applied Transactional Analysis**
Course Code **PS3521**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Learners will gain basic knowledge abouttransactional analysis and its principles	2	S
CO2	Learner will gain a deep Insight into their own personality & the personality of others	5	S
CO3	Learners will recognize communication patterns in human relations and personal obstacles, how they impede their own personal success, how to transcend these obstacles	4	S
CO4	Learners will gain knowledge of life scripts, discover how early life decisions obstruct & sabotage your success potential. More importantly, how one can change the course of your life	5	S
CO5	Learners will be able to apply transactional analysis concepts to explore new options for the purpose of counselling and therapy.	3	Emp./S

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Course Name **Literature of the Diaspora**
Course Code **EG3516**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To enable the student to understand the historical background of international migration.	2	S
CO2	To understand the linkage between international migration, Diaspora and transnational's.	2	S
CO3	To enable students to understand the contemporary migration patterns as a result of globalization.	2	S
CO4	To establish how immigration, diaspora and nationalism studied in the context of Indian diaspora.	2	S
CO5	To enables the students to explain the theoretical backgrounds of international migration, race, and ethnicity	1& 2	S

Course Name **Literary Theory**
Course Code **EG3518**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand and remember the meaning and significance of communication for commercial requirements and/or at commercial platforms.	1 & 2	S
CO2	Would learn and apply various forms of written messages in order to make formal communication with people within organization.	4	S
CO3	Simultaneously, develop listening skills and learn speaking skills required for face to face communication or communication through media.	2	S
CO4	Would learn and develop writing skills for drafting different types of written communication	1 & 2	S
CO5	Develop and apply core business communication skills like group discussions, public speaking etc.	4	Emp

Course Name **Business Communication**
Course Code **EG3517**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand and remember the meaning and significance of communication for commercial requirements and/or at commercial platforms.	1 & 2	S
CO2	Would learn and apply various forms of written messages in order to make formal communication with people within organization.	4	S
CO3	Simultaneously, develop listening skills and learn speaking skills required for face to face communication or communication through media.	2	S
CO4	Would learn and develop writing skills for drafting different types of written communication	1 & 2	S
CO5	Develop and apply core business communication skills like group discussions, public speaking etc.	4	Emp

Course Name **Economics of Marketing**
Course Code **EM3602**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the concept of marketing and Consumer behavior.	2	S
CO2	Understand the process of Product and Pricing decision making	2	S
CO3	Understand the distribution channel and process.	2	S
CO4	Understand the process of Promotion decision.	2	S
CO5	Understand the legal issues of marketing.	2	S

Course Name **Digital Economy**
Course Code **EM3603**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	To understand the basic about digital economy, its goals, tools, factors effecting it etc.	2	S
CO2	To analyse the principle behind search and matching work of digital economy.	4	S
CO3	To understand the Intellectual Property Rights.	2	S
CO4	To understand the reputation mechanism in online platforms.	2	S
CO5	To analyse the role of advertisement, media & privacy in the growth or fall of Digital economy.	4	S

Course Name **Fraud and Risk Detection**
Course Code **EM3604**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the basic about Risk & Risk Management.	2	S
CO2	To understand and analyze the different approaches of Risk management.	2	S
CO3	To understand about frauds, factors lead to frauds, fraud detection and prevention techniques.	2	S
CO4	To understand computer assisted auditing and detection of frauds.	2	S
CO5	To apply theoretical knowledge into application part by dealing with data.	2	S

Course Name **Project- II**
Course Code **EM3640**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Incorporates appropriate theoretical approaches, conceptual models, and a review of the existing literature.	3	S
CO2	Students will learn to structure a discussion in a coherent and convincing way by	3	S
CO3	Summarizing the key arguments and providing suitable and coherent findings.	3	S
CO4	Student will be able to draw valid conclusions, relating them to the research topic.	2	S
CO5	Students develop a design of their study with a discussion of the methodology to be used.	6	S

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Course Name **Health and Education Economics**
Course Code **EM3620**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the role of Health and education in human development and analysing their relationship with macroeconomic performance.	2	S
CO2	Analyze the demand for health services and emergence of health insurance market.	4	S
CO3	Analyze the role of Health sector in development of India through cost1 benefit analyses.	4	S
CO4	Understand the role of education in human capital development.	2	S
CO5	Understand the role of education in development of India.	2	S

Course Name **Political Economics**
Course Code **EM3617**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the role of political ideology in framing economic policy of the country.	2	S
CO2	To understand how politics influence the economy from Independence of India till 1991.	2	S
CO3	To understand how politics influence the economy from 1991to till date.	2	S
CO4	To make international comparisons between different countries.	2	S
CO5	To understand the poles of economic strength in the world.	2	S

Course Name **Applied Econometrics**
Course Code **EM3621**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the usage of econometrics in economics theory.	2	S
CO2	Understand the various linear regression model.	2	S
CO3	Analyze the dynamic regression model	4	S
CO4	Analyze the techniques to estimate Panle data.	4	S
CO5	Apply the econometrics techniques using various econometric software.	3	S

Course Name **Economics Sociology**
Course Code **EM3619**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the perspective in Economic Sociology.	2	S
CO2	To understand the forms of exchange.	2	S
CO3	To understand the system of production, circulation and consumption.	2	S
CO4	To understand the contemporary issues in Economic sociology.	2	S
CO5	To understand the new economic sociology.	2	S

Course Name **Dissertation**
Course Code **PS3606**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	incorporates appropriate theoretical approaches, conceptual models, and a review of the existing literature.	4	Emp.
CO2	Students will learn to structure a discussion in a coherent and convincing way by summarizing the key arguments and providing suitable and coherent findings.	3	S

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CO3	Student will be able to draw valid conclusions, relating them to the research topic.	5	S
CO4	Students develop a design of their study with a discussion of the methodology to be used.	5	Ent.
CO5	Students will be able write a dissertation	4	None

Course Name **Counselling Psychology**
Course Code **PS3607**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Learners will get acquainted to the field of counseling psychology thoroughly.	2	S
CO2	Learners will get in depth knowledge of theoretical basis and principles of counseling western as well as Indian.	3	S
CO3	Learners will get knowledge regarding various processes to undertake in counseling	3	S
CO4	Learners will get in depth knowledge about core practices and ethical codes of counseling.	3	Emp./S.
CO5	Learners will be able to apply the knowledge of counseling as field in various respects	3	S

Course Name **Psychology Practical Training-VI**
Course Code **PS3640**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO2	Students will learn to apply and assess Differential Aptitude Test in academic as well as in clinical context	3	S
CO3	Students will learn to apply and assess Word-Association Test (WAT) in academic as well as in clinical context	3	Emp.
CO4	Students will learn to apply and assess Psychological counseling needs in academic as well as in clinical context	3	S
CO5	Students will learn to apply and assess Research attitude.	3	S

Course Name **Youth Psychology**
Course Code **PS3616**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Developing an appreciation of the various issues in defining the category of 'youth'; understanding the phases in the development of youth identity	2	S
CO2	Knowing the various sociocultural influences on today's youth as well as demonstrating sensitivity towards today's youth by developing an understanding of their culture.	4	S
CO3	Understanding risk behaviors' of youth (drug abuse, delinquency, sexuality & suicide risk).	3	Emp./S
CO4	Learning about other challenges youth face in their lives such as those related to employment, education; health and body image.	3	S
CO5	Learning about positive youth development including responsibility, social capital, citizenship and political engagement	3	Emp./S

Course Name **Psychology and Media**
Course Code **PS3617**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Learners will be able to understand the psychological effects of media	2	S
CO2	Learners will be able to analyse the psychology of persuasion used by the media in terms of consumer behavior	4	S
CO3	Learners will be able to analyse the psychology of persuasion in terms of marketing strategies used aggressively by the media	4	Emp./S
CO4	Learners will be able to analyse the critical issues in media related to societal structures	5	S
CO5	Learners will be able to examine the impact of media on different age groups and get to learn about social media marketing	3	Emp./S

Course Name **Psychological Perspectives in Education**
Course Code **PS3618**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Learners will be able to Explain the meaning, scope and functions of concepts of education and psychology and able to understand the principles of learning and problem solving	2	S
CO2	Learners will be able to understand the motivation applied in teaching and learning process	4	S
CO3	Learners will get knowledge of principles of classroom management.	2	S
CO4	Learners will get knowledge about inclusive education which will include special need children and their management.	3	S
CO5	Learners will get knowledge about human diversity in education and related strategies.	3	S

Course Name **Psychology of Peace**
Course Code **PS3619**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Learners will get acquainted to the field of counseling psychology thoroughly.	2	Emp
CO2	Learners will get in depth knowledge of theoretical basis and principles of counseling western as well as Indian.	4	S
CO3	Learners will get knowledge regarding various processes to undertake in counseling	2	Emp
CO4	Learners will get in depth knowledge about core practices and ethical codes of counseling.	3	Emp/s
CO5	Learners will be able to apply the knowledge of counseling as field in various respects	3	Emp

Course Name **New Age Fiction**
Course Code **EG3616**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand Growth in Consciousness as the hallmark of Visionary Fiction	2	S
CO2	To understand that New Age fiction enlightens and encourages readers to expand their awareness of greater possibilities	2	S
CO3	To analyse how the fiction embraces spiritual and esoteric wisdom, often from ancient sources, and makes it relevant for our modern life	4	S
CO4	To analyse how the fiction embraces spiritual and esoteric wisdom, often from ancient sources, and makes it relevant for our modern life	4	S
CO5	To analyse how fiction expresses rebellion against all the values of Western civilization—personal, sexual, familial, religious, moral, societal, and political.	4	S

Course Name **Literary Research Methodology**
Course Code **EG3617**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand some basic concepts of research and its methodologies	2	S
CO2	Identify appropriate research topics	2	S
CO3	Select and define appropriate research problem and parameters	2	S
CO4	Prepare a project proposal (to undertake a Project)organize and conduct research (advanced Project) in a more appropriate manner	2	S
CO5	Write a research report and thesis	2	S

Course Name **Four Skills of Language Learning (for Competitive exams)**
Course Code **EG3618**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand language structures and functioning of the language.	2	S
CO2	Classify ancient and traditional perspectives of language use in the society.	2	S
CO3	Understand the application of linguistics on other related disciplines	2	S
CO4	Understand and describe the structure of the speech organs and their function and the basic methods of articulation	2	S
CO5	Describe the most important categories of vowels and consonants.	1& 2	S

Course Name **South Asian Literature**
Course Code **EG3619**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand and interpret South Asian literary works.	2	S
CO2	Evaluate the relationship between texts and their cultural and historical contexts;	5	S
CO3	Critically evaluate translations of South Asian literature;	5	S
CO4	Critically evaluate scholarly work relating to South Asian history and culture;	5	S
CO5	The ability to manage one's own learning, and to make use of scholarly reviews and primary sources such as research articles and/or original materials related to South Asia.	2	S

Course Name **Language, Linguistics and Phonetics**
Course Code **EG3607**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand language structures and functioning of the language.	2	S
CO2	Classify ancient and traditional perspectives of language use in the society.	2	S
CO3	Understand the application of linguistics on other related disciplines	2	S
CO4	Understand and describe the structure of the speech organs and their function and the basic methods of articulation	2	S
CO5	Describe the most important categories of vowels and consonants.	1& 2	S

Course Name **Language Lab**
Course Code **EG3640**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand language structures and functioning of the language.	2	S
CO2	Classify ancient and traditional perspectives of language use in the society.	2	S
CO3	Understand the application of linguistics on other related disciplines	2	S
CO4	Understand and describe the structure of the speech organs and their function and the basic methods of articulation	2	S
CO5	Describe the most important categories of vowels and consonants.	1& 2	S

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Bachelor of Science (Hons) in Physics/Chemistry/

Program Nam **Maths**

Course Name **English Communication**

Course Code **EG3103**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to discuss the concept of communication skills	1	S
CO2	Students will be able to increase self awareness about english language.	2	S
CO3	Students will be able to develop public speaking abilities.	1	S
CO4	Students will be able to present each and everything in correct manner.	2	Enp
CO5	Students will be able to discuss the concept of barriers to communication.	2	None

Course Name **Environmental Studies**

Course Code **CY3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students can be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	1	S
CO2	Students should be able to understand the solutions related to environmental problems related with the renewable & non-renewable resources.	2	S
CO3	Students should be able to understand the importance of ecosystem and biodiversity and the method of conservation of biological diversity.	1	S
CO4	Students should be able to understand different components of the environment and their function and the effects pollution on environment and should be able to understand the concept of sustainable development.	2	None
CO5	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	2	En

Course Name **Mechanics & Properties of Matter**

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Course Code **PH3107**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand about displacement, velocity and acceleration in Cartesian coordinate system and spherical & cylindrical polar coordinate systems; basic of Newtonian mechanics.	2	S
CO2	Students will be able to gain brief knowledge on two body central force problems, center of mass, along with rigid body dynamics.	3	S
CO3	Students will be able to achieve the brief knowledge on Hydrodynamics including surface tension, viscosity etc.	3	S
CO4	Students will be able to explain the phenomena related to Elasticity including different rigidity modulus.	3	None
CO5	Students will be able to capture the basic knowledge on Special Theory of Relativity.	3	Enp

Course Name **Calculus**
Course Code **MA3107**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will learn to find successive differentiation and apply Leibniz rule for finding higher order and learn to find concavity and point of inflexion of the curve, tracing of curve in Cartesian coordinate, indeterminate forms	2	S
CO2	Students will be able to work with parametric equation and their representation and will learn about definite integral and application of integraion and find the area of a plane region between two curves, area of a surface of revolution.	3	S
CO3	Students will be able to understand the concept of partial differentiation and learn about increment approximation, total differential and Jacobean.	3	S
CO4	Students will be able to find the maxima and minima of function of several variables and learn the Lagrange multipliers method for finding extreme of function.	2	S
CO5	Students will learn to solve double and triple integral, change of order in double integral and understand beta and gamma functions.	2	S

Course Name **Structure of Atom, Chemical Bonding & Analytical Chemistry**

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Course Code **CY3108**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students able to know the structures, properties, application and the chemical reactivity.	2	S
CO2	Students will gain knowledge on fundamental of chemistry of the main group elements, and importance and real world application of many of these elements	2	S
CO3	Students will gain knowledge on the general characteristics of ions, size and effects.	1	S
CO4	Qualitative idea of valence bond and band theories.	2	S
CO5	Students able to know the Quantum numbers and their significance.	2	S

Course Name **Mechanics& Properties of Matter Lab**
Course Code **PH3142**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will acquire knowledge of how to handle measuring instruments (like screw gauge, vernier calipers, Travelling microscope) and graphing data for analysis	2	S
CO2	Students will have hands on experience on verifying various principles learnt in theory. Measuring 'g' using Bar Pendulum, Kater pendulum	3	S
CO3	Students will be able to Measure elastic constants of materials.	3	S

Course Name **Qualitative Analysis Lab**
Course Code **CY3140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will gain hands on experience on different kinds of titrations.	1	Em

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CO2	Students will able to learn calibration of instruments and methods involved by performing experiments.	2	S
CO3	Students will be able to know the preparation of standard solutions.	3	S

Course Name **English Communication Lab**
Course Code **EG3141**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to develop public speaking abilities.	2	Em
CO2	Students will be able to speak of each topic.	3	S
CO3	Students will be able to increase self awareness about english language.	2	S

Course Name **Basic Electrical and Electronics Engineering**
Course Code **EC3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the fundamentals of AC & DC circuits and network analysis using various theorems	2	S
CO2	Students will learn the construction and testing of transformers, AC parameters, RLC circuits and three phase system	2	S
CO3	Students will learn working and application of single/ three phase type AC machines, and DC machines	2	S
CO4	Students will be able to transport phenomenon in semiconductors, electronic devices and applications	3	S
CO5	Students will gain knowledge on Boolean algebra, binary gates, op-amps and electrical measuring instruments,	2	S

Course Name **Basic Electrical and Electronics Engineering Lab**
Course Code **EC3140**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to verify Kirchhoff's current and voltage laws	2	S
CO2	Students will know and will be able to apply the Thevenin's, Norton's, superposition and maximum power transfer theorem, Analyze the half-wave and full-wave rectifier using silicon diode	2	S
CO3	Students will be bale to understand and analyze the characteristics of transistors and semiconductor diodes,To know about basic concepts of various logic gates	3	S

Course Name **Solid States & Ionic Equilibrium**
Course Code **CY3107**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be gaining knowledge on basics and advance concepts regarding the three states of matter.	2	S
CO2	Students will be gaining knowledge on diffraction and their analysis.	3	S
CO3	Students will be gaining knowledge on ionic equilibrium.	2	S
CO4	Students will be gaining knowledge on solutions and its applications.	2	Enp
CO5	Students will be gaining knowledge on solubility and their application's,	3	None

Course Name **Solid States & Ionic Equilibrium Lab**
Course Code **CY3141**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will understand the concept of surface tension and viscosity.	2	Em

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CO2	Students will be gaining knowledge on application of physical chemistry laws experimentally.	2	S
CO3	Students will gain hands on experience on preparation of buffer solutions and determine the solubility of salt.	1	S

Course Name **Analytical Geometry & Vector Calculus**
Course Code **MA3108**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will learn to find the position of any particle in the space, find the areas of triangles, quadrilaterals and circles and shapes.	2	S
CO2	Students will gain knowledge on concepts: plane; points; lines; line segments; i rays and length of (straight) line,	3	S
CO3	Students will understand the concepts of advance topics related to two and three dimensional geometry and learn the application of sphere, cone and cylinder and understand geometrical terminology for angles, triangles, quadrilaterals and circles.	3	S
CO4	Students will gain knowledge on directional derivative and gradient and wiil be able to illustrate geometric meanings with the aid of sketches.	2	S
CO5	Students will be able to understood the relation between gard ,Div,and Curl Apply gradient to solve problems involving normal vectors to level surfaces. Explain the concept of a vector integration a plane and in space.	3	S

Course Name **Fundamental of Computer &Programming in C**
Course Code **CS3202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will gain knowledge on programming and write pseudo-code.	1	S
CO2	Students will be able to choose the right data representation formats based on the requirements of the problem.	2	En
CO3	Students will be able to use the comparisons and limitations of the various programming constructs and choose the right one for the task in hand.	2	S
CO4	Students will be able to write the program on a computer, edit, compile, debug, correct, recompile and run it.	3	En

CO5	Students will be able to identify tasks in which the numerical techniques learned are applicable and apply them to write programs, and hence use computers effectively to solve the task.	3	En

Course Name **Electricity and Magnetism**
Course Code **PH3206**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to demonstrate Coulomb's law for the electric field, and apply it to systems of point charges as well as line, surface, and volume distributions of charges. Explain and differentiate the vector (electric fields, Coulomb's law) and scalar (electric potential, electric potential energy) formalisms of electrostatics. Apply Gauss's law of electrostatics to solve a variety of problems.	2	S
CO2	Students will gain knowledge on electric current, resistance and capacitance in terms of electric field and electric potential. Demonstrate a working understanding of capacitors.	2	S
CO3	Students will be able to describe the magnetic field produced by magnetic dipoles and electric currents. Also list examples where its effects are observed.	3	S
CO4	Students will be able to explain Faraday-Lenz and Maxwell laws to articulate the relationship between electric and magnetic fields. Also give basic understanding of magnetic properties of matter.	2	S
CO5	Students will be able to apply Kirchhoff's rules to analyze AC circuits consisting of parallel and/or series combinations of voltage sources and resistors and to describe the graphical relationship of resistance, capacitor and inductor. They will be also able to apply various network theorems such as Superposition Theorem, Thevenin Theorem, Norton Theorem, Reciprocity Theorem, Maximum Power Transfer, etc. and their applications in electronics, electrical circuit analysis, and electrical machines.	3	S

Course Name **Thermodynamics And Its Applications**
Course Code **CY3206**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be learn the different laws of thermodynamics.	2	Emp
CO2	Students will be gaining knowledge on thermochemistry.	2	S
CO3	Students will be gaining knowledge on system of variable composition.	1	S
CO4	Students will be gaining knowledge on chemical equilibrium.	2	Enp
CO5	Students will be gaining knowledge on solutions and colligative properties.	1	None

Course Name **Differential Equations**
Course Code **MA3207**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn to solve the linear ordinary differential equation of first order and also learn the standard methods of solving the DE of first order and first degree.	3	S
CO2	Students will learn to solve the second order DE with constant coefficient and know the different methods of finding CF and PI.	2	S
CO3	Students will learn to solve the second order DE with variable coefficient by different methods like Cauchy Euler homogeneous linear DE,Legendre's homogeneous equation etc.	3	S
CO4	Students will gain knowledge about simultaneous equation and total differentiation.	2	S
CO5	Students will learn about some special functions (Legendre polynomial and Bessel functions) and their properties	3	S

Course Name **Electricity and Magnetism Lab**
Course Code **PH3240**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Students will learn and practice the basic concepts of magnetism physically.	2	S
CO2	Students will be able to measure the field strength and verify the theorems.	3	S
CO3	Students will gain knowledge on response curve and able to determine high resistance and self and mutual inductance by different methods.	2	S

Course Name **Fundamentals of Computers and Programming in C Lab**
Course Code **CS3241**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students can be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	1	S
CO2	Students should be able to understand the solutions related to environmental problems related with the renewable & non-renewable resources.	2	S
CO3	Students should be able to understand the importance of ecosystem and biodiversity and the method of conservation of biological diversity.	1	S
CO4	Students should be able to understand different components of the environment and their function and the effects pollution on environment and should be able to understand the concept of sustainable development.	2	None
CO5	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	2	En

Course Name **Environmental Studies**
Course Code **CY3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn a programming language.	2	Em
CO2	Students will learn problem solving techniques.	2	S
CO3	Students will be able to write programs in C and to solve the problems.	3	S

Course Name **Thermo Chemistry Lab**
Course Code **CY3242**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will gain knowledge on working principle of Bomb Calorimeter.	2	S
CO2	Students will be able to determine the heat capacity of calorimeter using standard methods.	2	S
CO3	Students will learn to calculate enthalpy change of different solution.	3	S

Course Name **Disaster Preparedness & Management***
Course Code **CE3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students can be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	2	S
CO2	Students should be able to understand the solutions related to environmental problems related with the renewable & non-renewable resources.	2	S
CO3	Students should be able to understand the importance of ecosystem and biodiversity and the method of conservation of biological diversity.	2	S
CO4	Students should be able to understand different components of the environment and their function and the effects pollution on environment and should be able to understand the concept of sustainable development.	2	S
CO5	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	2	S

Course Name **UnitedNationsDevelopmentProgramme**
Course Code **HU3202**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn about the Structure, Mission, Vision and Goals of UNDP	2	S
CO2	Equip the students with the knowledge of sustainable livelihoods for inclusive economic growth.	2	S
CO3	Students will learn and explore about the Human Development index to promote well being at all ages.	2	S
CO4	To impart better education on SDGs goals focusing on Gender Equality and Provide Access to Justice to All and Build Effective.	3	N
CO5	Students will develop knowledge regarding environment sustainability.	3	N

Course Name **Waves & Matter**
Course Code **PH3209**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the principle of superposition of waves, so thus describe the formation of standing waves.	2	S
CO2	Students will be able to understand about wave phenomenon and various properties describing wave motion.	2	S
CO3	Students will be able to recognize and use a mathematical oscillator equation and wave equation, and derive these equations for certain systems.	3	S
CO4	Students will be able to use the principles of wave motion and superposition to explain the physics of interference and understand the working of selected optical instruments like biprism.	2	S
CO5	Students will be able to use the principles of wave motion and superposition to explain the physics of polarisation, interference and diffraction and understand the working of selected optical instruments like interferometer, diffraction grating and polarimeter,	3	S

Course Name **Waves and Matter Lab**
Course Code **PH3242**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	In the laboratory course, student will gain hands-on experience of using various optical instruments such as diffraction grating, prisms	3	S
CO2	student will gain hands-on experience on instruments and making finer measurements of wavelength of light using Newton Rings. and understand the working of selected optical instruments like biprism, interferometer,	2	S
CO3	Students will gain knowledge on the motion of coupled oscillators, and also will study on Lissajous figures and behavior of transverse,	3	S

Course Name **s & p block elements**
Course Code **CY3207**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students able to know the structures, properties, application and the chemical reactivity of the s&p block	2	S
CO2	Students will learn the fundamental of chemistry of the main group elements, and importance and real world application of many of these elements	2	En
CO3	Students will be able to describe the occurrence, preparation and characteristics of halogens.	2	S
CO4	Students will be able to describe to properties, preparation and uses of noble gas	2	S
CO5	Students will gain knowledge on polymers, their synthesis, reaction, mechanism and kinetics	2	None

Course Name **Group Theory**
Course Code **MA3208**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Students can be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	1	S
CO2	Students should be able to understand the solutions related to environmental problems related with the renewable & non-renewable resources.	2	S
CO3	Students should be able to understand the importance of ecosystem and biodiversity and the method of conservation of biological diversity.	1	S
CO4	Students should be able to understand different components of the environment and their function and the effects pollution on environment and should be able to understand the concept of sustainable development.	2	None
CO5	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and preventions.	2	En

Course Name **Environmental Studies**
Course Code **CY3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn about the group theory and properties of group.	2	S
CO2	Students will learn about sub group and theorem based on subgroup.	2	Enp
CO3	Students will learn about cyclic group .student will able to analyze in reference of group .	3	S
CO4	Students will able to understand about group homeomorphism and isomorphism .student is able to understand the statements of theorems based on isomorphism.	3	Enp
CO5	Students understand the concept of Cosets. Students are also able to understand and apply the Lagrang's theorem.	2	Enp

Course Name **Elements of Modern Physics**
Course Code **PH3306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

CO1	Students will be able to understand the basic concept of quantum wave mechanics and black body radiation	2	S
CO2	Students will learn about the wave nature of light and Heisenberg principle and its application.	2	S
CO3	Students will be able to explain fundamentals of quantum mechanics and apply it to problems on bound states.	3	S
CO4	Students will gain the knowledge about the basic of atom and nucleus.	2	S
CO5	Students will have an overview of radioactivity.	2	S

Course Name **Spectroscopy**
Course Code **CY3308**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know the working of various instruments.	2	S
CO2	Students will learn the interaction of electromagnetic radiations with molecules and various types of spectra.	2	S
CO3	Students will gain knowledge on the spectra and its uses to detect ,identify, and quantify information about the atoms and molecules.	2	S
CO4	Students able to know the physical, chemical and biological properties of matter.	2	S
CO5	Student will gain knowledge on Spectroscopy and its applications.	2	S

Course Name **Statistics& Correlation**
Course Code **MA3309**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to describe and discuss the key terminology, concepts tools and techniques used in business statistical analysis	2	S
CO2	Students will be able to establish the joint distribution of two random variables in terms their correlation and regression.	3	S
CO3	Students will be able to understand the basic concepts of probability.	3	S
CO4	Students will be able to solve a range of problems using the techniques covered	2	S

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CO5	Students will be able to understand central limit theorem which shows that the empirical frequencies of so many natural populations exhibit normal distribution.	2	S

Course Name **Elements of Modern Physics Lab**
Course Code **PH3340**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to measure Planck constant using black body radiation and photo detector	2	S
CO2	Students should be able to determine work function of material of filament of directly heated vacuum diode	2	S
CO3	Students should be able to determine the wavelength of laser source using diffraction of single slit and double slit.	2	S

Course Name **IndianKnowledgeSystem**
Course Code **HU3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The students will be able to understand the Indian Knowledge System such as historical development, sources and scope.	2	S
CO2	The students will be able to understand the vocabulary system of Indian knowledge system.	2	S
CO3	The students will be able to understand and apply the philosophical foundations and methods of IKS.	3	N
CO4	The students will be able to execute the case studies based on the Indian knowledge system.	3	N
CO5	The students will be able to understand the influence of Indian Knowledge System on world.	2	S

Course Name **Mathematical Physics I**
Course Code **PH3307**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will gain knowledge on Vectors and Vector space and their properties.	2	S
CO2	Students will be able work with matrices and determine if a given square matrix is invertible and solve the given values and given vectors of a matrix and determine diagonalization of a matrix.	3	S
CO3	Students will gain knowledge on PDE and their solution by variable separable method and introduction on complex analysis and some important theorem on it ,Jordan lemma, Taylors and Laurents series , conformal mapping and application .	2	S
CO4	Student will learn about Fourier series, periodic functions and their expansion even and odd function and their Fourier expansion and application of fourier series.	3	S
CO5	Students will learn about some special functions (Legendre polynomial, Hermite and Bessel functions) and their properties.	2	S

Course Name **Co-ordination Chemistry**
Course Code **CY3306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know the structures, properties, application and the chemical reactivity.	2	S
CO2	Students will be able to coordinate compounds are used as catalysts for many applications in qualitative/quantitative chemical analysis within analytical chemistry.	1	S
CO3	Students will learn the interaction of metal and legends	2	S
CO4	Students able to know the physical, chemical properties and structure of the metals.	2	En
CO5	Students able to know the magnetic and catalytic behavior of complex compounds	2	S

Course Name **Quantitative Analysis Lab**
Course Code **CY3343**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know the preparation of inorganic and organic compound by various methods.	1	Emp
CO2	Students will learn the synthesis of different compound.	2	S
CO3	Students will able to apply the knowledge of various methods in industries.	3	S

Course Name **Real Analysis**
Course Code **MA3306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn about the countable set and properties of countable set .	2	Emp
CO2	Students will learn about sequence and theorem based on sequence.	3	S
CO3	In this students will learn about convergence of positive term series and absolute term series .	3	S
CO4	In this students will learn about concept of continuity and differentiability .	3	Enp
CO5	Students will learn about rehman integrals and proof of theorems based on Rehman integrals .	3	None

Course Name **Thermal Physics And Acoustics**
Course Code **PH3409**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn about the zeroth and first law of thermodynamics and their applications.	1	S
CO2	Students will learn about the second law of thermodynamics and should be able to use it in various applications.	2	S
CO3	Students will be able to understand the concepts of entropy and third law of thermodynamics and their applications.	2	S

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CO4	Students will gain knowledge about various thermodynamics potential function and should be able to find the relation between them	3	S
CO5	Students will learn aboutAcoustics, Ultrasonic waves, piezo electric crystal - Magnetostriction effect and Application of ultrasonic waves.	3	S

Course Name **Hydrocarbons, Haloalkanes and Haloarenes**
Course Code **CY3408**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know the structure of compounds and properties.	1	S
CO2	Students will be able to describe the Steriochemistry of molecules and its properties.	2	S
CO3	Students will be able to know the structure of aliphatic compounds	1	S
CO4	Students will gain knowledge on conformational analysis of Cyckloalkanes.	2	S
CO5	Students will be able to know the characteristics of organic compounds.	1	S

Course Name **Numerical Analysis**
Course Code **MA3406**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to apply numerical methods to find our solution of algebraic equations using different methods under different conditions, and numerical solution of system of algebraic equations.	3	S
CO2	Students will be able to work numerically on the partial differential equations using different methods through the theory of finite differences.	2	S
CO3	Students will be able to work numerically on the ordinary differential equations using different methods through the theory of finite differences	3	S
CO4	Students will be able to solve initial and boundary value problems in differential equations using numerical methods.	2	S
CO5	Students will be able to apply various numerical methods in real life problems.	3	S

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Course Name **Thermal Physics And Acoustics Lab**
Course Code **PH3449**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to determine the coefficient of thermal conductivity by searle's apparatus	2	S
CO2	Students should be able to determine the coefficient of thermal conductivity by Angstrom's apparatus	2	S
CO3	Students should be able to determine the coefficient of thermal conductivity a bad conductor by lee and Charlton disc method	2	S

Course Name **Numerical Analysis Lab**
Course Code **MA3440**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will able to implement various methods for finding the roots of Polynomial equations.	1	S
CO2	Students will able to implement various numerical solutions of Algebraic Equations.	2	S
CO3	Students will able to implement various methods for finite difference and Interpolation.	2	S

Course Name **Atomic and Molecular Physics**
Course Code **PH3408**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	To understand the basic idea of X-ray spectrum and its usage in analyzing different types of crystals.	2	S
CO2	To understand the different aspects of studying the structure of an atom and to know different types of methods to find the charge of an electron.	2	S

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CO3	To acquire the knowledge of Zeeman effect and its classical and quantum theory approach.	3	S
CO4	To understand the basic idea of molecular spectra and to acquire the knowledge about different types of molecular spectra.	2	S
CO5	To understand the basic idea of NMR spectroscopy, Chemical shifts, J-coupling and NMR Structure determination of molecules.	3	S

Course Name **Electrochemistry**
Course Code **CY3407**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will able to know the electrical conductivity of substance in various aqueous solution	1	S
CO2	Students will able to classify the strong electrolyte, weak electrolyte or non-electrolytes. Determine the effect of molar construction as well as the number of ions in solution on the conductivity..	2	S
CO3	Students will gain knowledge on Quantitative aspects ,different laws, oxidation/reduction potential, application of electrolysis in industries.	2	S
CO4	Students will be able to determine of qualitative & quantitative potentiometric titration, enthalpy and entropy of a cell reaction.	2	S
CO5	Students will learn on basics ideas of electrical and magnetic properties of atom and molecules.	2	S

Course Name **Hydrocarbon Lab**
Course Code **CY3441**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn to determine the melting points of different organic compound using experimental methods.	2	S
CO2	Students will gain information on handling instruments and chemicals in suitable manners.	2	S
CO3	Students will able to know the importance of experiments and how to apply in commercial level.	3	S

Course Name **Algebra of Rings And Field**

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Course Code **MA3408**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn about Ring , subrings imbedding of rings and some properties of rings and apply these properties in problem solving.	2	S
CO2	Students will be able to understand the definition of Ideals , product of two ideals , prime ideals, maximal ideals , principle ideals and about quotient ring .	3	S
CO3	Students Will learn about definition and properties of Polynomial rings, Euclidean theorem , factor theorem , irreducible polynomials	2	S
CO4	Students will be able to know the concept of extension field , algebraic extension , Roots of polynomial and apply this concept in problem solving .	3	S
CO5	Students learn concept of Splitting fields and some theorems on it and learn about constructible number, construction by edge and compass	2	S

Course Name **Hydrocarbons Lab**
Course Code **CY3441**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn to determine the melting points of different organic compound using experimental methods.	1	S
CO2	Students will gain information on handling instruments and chemicals in suitable manners.	2	S
CO3	Students will able to know the importance of experiments and how to apply in commercial level.	3	S

Course Name **Solid State Physics**
Course Code **PH3502**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will gain a brief idea about crystalline and amorphous substances, about lattice, unit cell, miller indices, reciprocal lattice, concept of Brillouin zones and diffraction of X-rays by crystalline materials.	2	S
CO2	Students will gain knowledge on lattice vibrations, phonons, Einstein and Debye theory of specific heat of solids.	3	S
CO3	Students will understand about the dielectric materials, different types of magnetism from diamagnetism to ferromagnetism and hysteresis loops and energy loss.	2	S
CO4	Students will understand about the ferroelectric properties of materials.	2	S
CO5	Students will understand about the band theory of solids and must be able to differentiate insulators, conductors and semiconductors and they will also understand the basic idea about superconductors and their classifications.	3	S

Course Name **Laser and Fiber Optics**
Course Code **PH3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn and understand with the basics of Laser system.	2	S
CO2	Students will learn about optical resonator, quality factor, Q switching and mode locking techniques.	2	S
CO3	Students will acquire skills to understand the different types of Laser	3	Emp
CO4	Students will be able to know about attenuation in fiber, TE, TM modes and working mechanism of optical fiber.	2	S
CO5	Student will have the knowledge about nonlinear optics.	3	S

Course Name **Renewable Energy & Resources**
Course Code **PH3505**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the need of energy conversion and the various methods of energy storage.	2	S
CO2	Explain the field applications of solar energy.	3	S
CO3	Identify Winds energy and Tidal energy as alternate form of energy and to know how it can be tapped.	2	Emp
CO4	Ability to explain the Geothermal and Hydro energy, its mechanism of production and its applications.	3	Emp
CO5	Ability to explain the electro-magnetic energy harvesting and its application.	2	Emp

Course Name **Solid State Physics Lab**
Course Code **PH3541**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to carry out experiments based on theory that have learnt to measure the magnetic stability.	2	S
CO2	Students will be able to carry out experiments on dielectric constant and trace hysteresis loop.	2	S
CO3	Students will also employ to four probe methods to measure electrical conductivity and the hall set up to determine the hall coefficient of a semiconductor.	2	S

Course Name **Analog Systems and Its Applications**
Course Code **PH3611**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the basic concept of N- and P-type semiconductors, mobility, drift velocity, fabrication of P-N junctions; forward and reverse biased junctions	2	S

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CO2	Students will learn and understand the application of PN junction for different type of rectifiers and voltage regulators.	3	S
CO3	Students will be able to understand the basic concept of NPN and PNP transistors and basic configurations namely common base, common emitter and common collector, and also about current and voltage gain.	2	S
CO4	Students will be able to understand various biasing and equivalent circuits, coupled amplifiers, feedback in amplifiers and oscillators.	2	S
CO5	Students will learn about operational amplifiers and gain knowledge on different configurations namely inverting and non-inverting and applications of operational amplifiers in D to A and A to D conversions.	3	S

Course Name **Medical Physics**
Course Code **PH3616**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to explain Loco-motors Systems: joints and movements, Stability and Equilibrium, Physics of cardiovascular system	2	S
CO2	Students will learn and understand the characteristics of sound, Production of speech, Rotating anode x-ray tube and of X-Ray Generator	3	S
CO3	Students will be able to understand about production of x-rays, x-ray spectra, Bremsstrahlung, Characteristic x-ray.	2	S
CO4	Students will be able to explained Interaction of radiation with matter Compton & photoelectric effect, TLD, Semiconductor detectors.	2	S
CO5	Students will learn about radiation protection, protective materials-radiation effects, somatic, genetic stochastic and deterministic effect, Radiation monitors	3	S

Course Name **Space Physics**
Course Code **PH3617**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will be able to brief about the history of solar-terrestrial physics.	2	S

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CO2	Students will be able to explain about space plasma physics.	2	S
CO3	Students will be understand about solar winds and Interplanetary Magnetic Field.	3	S
CO4	Students are able to explain the interaction of solar winds with magnetized planets.	2	S
CO5	Students will be able to brief about magnetosphere.	3	S

Course Name **Biological Physics**
Course Code **PH3618**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Be able to brief about the distinct property of biological systems	2	S
CO2	Be able to explain about the life at molecular level.	2	S
CO3	Be able to explain the complexity of life at the level of a cell.	3	S
CO4	Be able to explain the complexity of life at the level of a multicellular organism.	2	S
CO5	Be able to brief about The mechanism of evolution.	3	S

Course Name **Instrumental Methods of Chemical Analysis**
Course Code **CY3602**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know the working of various instruments.	1	S
CO2	Students will be able to describe the various tecniques of separations	1	S
CO3	Students will be gaining knowledge on spectra and quantify information about the atoms and molecules.	1	S
CO4	Students able to know the principle of various instruments.	1	S
CO5	Students able to know the electro analytical methods.	2	S

Course Name **Thermo Chemistry And Chemical Equilibrium**
Course Code **CY3603**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be learning about basics of thermodynamics.	2	S
CO2	Students will be gaining knowledge on Chemical equilibrium.	2	S
CO3	Students will be gaining knowledge on Solution.	2	S
CO4	Students will be gaining knowledge on electrochemistry.	2	S
CO5	Students will be gaining knowledge on electrochemical reactions.	3	S

Course Name **Molecules of Life**
Course Code **CY3611**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be gaining knowledge on classification and properties of Carbohydrates.	1	S
CO2	Students will be gaining knowledge on Lipids and its importance.	1	S
CO3	Students will be gaining knowledge on enzymes and its correlation with drugs.	2	S
CO4	Students will be gaining knowledge on structure and function of nucleic acids.	1	S
CO5	Students will be gaining knowledge on vitamins and food additives.	2	S

Course Name **Biochemistry**
Course Code **CY3612**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to gain knowledge on basics of Biochemistry.	1	S
CO2	Students will be gaining knowledge of water.	2	S
CO3	Students will be gaining knowledge of carbohydrates and structure .	2	S

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CO4	Students will be gaining knowledge of Lipid and amino acids	1	S
CO5	Students will be gaining knowledge of vitamins and nucleic acids	1	S

Course Name **Research Methodology for Chemistry**
Course Code **CY3613**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to gain knowledge on Literary survery and their sources.	1	S
CO2	Students will be gaining knowledge on methods of scientific research.	2	S
CO3	Students will be gaining knowledge on chemical safety and ethical handling of chemicals.	2	S
CO4	Students will be gaining knowledge on Data Analysis.	1	S
CO5	Students will be gaining knowledge on electronic circuits.	1	S

Course Name Partial Differential Equations
Course Code MA3601

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn to solve the linear partial Differential equation of first order and also learn the solution by specific method (Charpit's method ,Lagrange's methods.	3	Emp
CO2	Students will be able to work with partial differential equation and students learns the classifications of partial differential equation of second order and canonical form .	2	S
CO3	Students will learn to solve linear homogeneous partial differential equation of nth order with constant coefficients .learn methods of finding CF and find PI by short method .	2	S
CO4	Students will learn separation of variable method and will be able to apply it for finding the solution of heat equation in one and two dimensions.	3	Enp
CO5	Students will learn to solve the wave equations and equation of vibrating string.	2	S

Course Name **Theory of Complex Analysis**
Course Code **MA3604**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the significance of differentiability for complex functions and be familiar with the Cauchy-Riemann equations.	2	S
CO2	Students will be able to apply the concept and consequences of analyticity and the Cauchy-Riemann equations and of results on harmonic and entire functions including the fundamental theorem of algebra and use antiderivatives to compute line integrals. Students will be also able to understand the theory and techniques of complex integration.	1	S
CO3	Express complex-differentiable functions as power series. Analyze sequences and series of analytic functions and types of convergence. Apply the theory into application of the power series expansion of analytic functions	2	S
CO4	Students will gain knowledge on functions as Taylor, power and Laurent series, classify singularities and poles, find residues and evaluate complex integrals using the residue theorem.	2	S
CO5	Students will be able to understand the uses of improper integrals in various situations. Understand the basic methods of complex integration and its application in contour integration	2	S

Course Name **Rigid Dynamics**
Course Code **MA3615**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn about the force in three dimension and also learn the equilibrium of system of particle and central exes	3	S
CO2	Students will learn moments of inertia with different bodies and the classifications momentalellipoid.	2	S
CO3	Students will learn velocity of the fluid at a points and learn equation of continuity in Cartesian and boundary surface.	3	S
CO4	Students will learn about the motion of fluid in any body , equation of motion like Bernoulli's equation, Emulsion equation.	2	S
CO5	Students will learn to solve two dimension flow also learn about sinks, image system of simple source	3	S

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Course Name **Vedic Mathematics**
Course Code **MA3616**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The students will learn the concept of addition and subtraction using completing the whole and from left to right.	2	S
CO2	The students will learn solve the multiplication using vertically and crosswise and one more than the previous one method and demonstrate multiplication by 11, 12 and 13 by using Vedic sutras of multiplication.	3	S
CO3	Distinguish between squaring numbers ending in 5 and squaring numbers near number 50 and manage to simplify algebraic squaring.	3	S
CO4	The students will learn to apply reverse squaring to find square root of number ending in 5 and manage to solve the square root of perfect square.	2	S
CO5	students will learn to identify cube and cube roots, understand and apply division by 9 and understand the concept of division by using straight division.	3	S

Course Name **Number Theory**
Course Code **MA3617**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn about the Euclidean algorithm ,Diophantine equations.	2	S
CO2	Students will be able to understand the theory of congruencies, binary and decimal representations of integers , linear congruence and Chinese remainder theorem , Fermat's theorem ,Wilson's theorem.	3	S
CO3	Students Will learn about Tau and sigma function , the Mobius inversion formula.	3	S
CO4	Students will be able to know the concept of order of an integer molulon , primitive roots for primes , composite numbers.	2	S
CO5	Students learn concept of the Dirichlet product.	3	S

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Program Nam **Bachelor of Science (Hons) in Agriculture**

Course Name **Introductory Biology**

Course Code **AG3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be learning how life has originated and evolved.	2	Emp
CO2	Students will be learning on classification of living things.	2	Emp
CO3	Students will be gaining knowledge on how a cell looks like and how do they divide.	3	S
CO4	Students will be learning about seed germination and flowering plants.	3	Ent
CO5	Students will be learning about plant systematic and animals in agriculture..	2	Emp

Course Name **Elementary Mathematics**

Course Code **MA3103**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will able to use the binomial theorem to solve the algebraic problems	3	Emp
CO2	Students will able to use logarithm in mathematical calculations	3	S
CO3	Students will understand the concept of limits	2	Emp
CO4	Students will able to use basics rule of differentiation	2	Emp
CO5	Students will able to find derivative of implicitfunctions	2	Emp

Course Name **Agricultural Heritage**

Course Code **AG3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be introduced with the basic knowledge about the agricultural and its different components	2	Emp
CO2	Students will be able to know about plant protection and its managements	2	Emp
CO3	Students will be able to know about the concepts of modern agriculture	3	Emp
CO4	Student will gain knowledge about the current scenario of Indian agriculture	2	Emp

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CO5	Students will be aware of indigenous traditional knowledge in agriculture	2	Emp

Course Name **English Communication**
Course Code **EG3103**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to discuss the concept of communication skills	2	Emp
CO2	Students will be able to increase self awareness about English language.	2	Emp
CO3	Students will be able to develop public speaking abilities.	3	Emp
CO4	Students will be able to present each and everything in correct manner.	3	Emp
CO5	Students will be able to discuss the concept of barriers to communication.	3	Emp

Course Name **Introduction to Forestry**
Course Code **AG3104**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To impart knowledge on concepts and principles Indian Forest and Indian Forest Policies	3	Emp, S
CO2	Students will learn different methods of forest regeneration	3	Emp, S, Ent
CO3	Students will gain Knowledge about different silvicultural practices and their effect on tree growth.	3	Emp
CO4	Students will learn the principles and working of tools and equipments used in forestry.	3	Emp, S, Ent
CO5	Students will learn about importance of Agroforestry and different agroforestry system.	3	Emp, S

Course Name **Fundamentals of Agronomy**
Course Code **AG3106**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will understand meaning and scope of Agronomy and classification of Crops.	2	Emp
CO2	Students will learn about general principles of crop production, crop density and geometry.	2	Emp

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CO3	Students will gain knowledge about nutrient management, irrigation methods and management.	2	Emp
CO4	Students will able to understand weed and herbicide classification, weed management principles and methods.	2	Emp
CO5	Students will learn about growth and development of crops, ideotypes, crop rotation, adaptation and distribution of crops and crop management in problematic areas.	2	Emp

Course Name **Fundamentals of Soil Science**
Course Code **AG3107**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about pedological and edaphological concepts of soil; Soil genesis: soil forming rocks and minerals; weathering, soil Profile, components of soil	3	Emp, S
CO2	Students will learn soil physical properties & soil taxonomy classification, soil water retention, movement and availability	3	Emp, S, Ent
CO3	Students will learn about soil chemical properties &soil colloids, ion exchange, cation exchange capacity and base saturation	3	Emp
CO4	Students will learn about Soil organic matter, humic substances,soil organisms, macro and micro organisms, their beneficial and harmful effects	3	Emp, S, Ent
CO5	The students will gain knowledge on soil pollution, behaviour of pesticides and inorganic contaminants, prevention and mitigation of soil pollution	3	Emp, S

Course Name **Rural Sociology and Educational Psychology**
Course Code **AG3109**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will gain the skills required for entrepreneurship development among the students for self-employment	2	Emp,S
CO2	Imparting managerial training among the young students to build entrepreneurial skills	3	Emp,Ent
CO3	Imparting skills necessary to prepare a model village Plan	3	Emp, S
CO4	Students will be gaining knowledge on learning techniques for establishing and managing micro project for the upliftment of rural people	3	Emp, Ent

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CO5	Students will gain knowledge on preparation of detailed project report (DPR) for availing loans and grants	3	Emp, Ent

Course Name **Fundamentals of Horticulture**
Course Code **AG3110**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be introduced with the basic knowledge about the Horticultural and its different components	2	Emp, S
CO2	Students will be able to know about the management of Plant propagation and its managements	3	Emp, S, Ent
CO3	Students will be able to know about the concepts of micro irrigation and horticulture crops	3	Emp
CO4	Student will gain knowledge about the components of precision farming	3	Emp, S, Ent
CO5	Students will be aware of the remote sensing and Geographical Information System	3	Emp, S

Course Name **Fundamentals of Plant Biochemistry and Biotechnology**
Course Code **AG3111**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students would learn about buffer preparation, classification, structures and function of carbohydrates, lipids, fatty acids and importance of Biochemistry	2	Emp
CO2	Students would learn the classification of amino acids, proteins, enzymes, structural organization of proteins, mechanism of enzyme action and allosteric enzymes	2	Emp
CO3	Students will gain knowledge about DNA and RNA, carbohydrate metabolism, lipid metabolism, and CO2 fixation	2	Emp
CO4	Students will understand about the different culture method useful to understand the micropropagation, organogenesis, synthetic seed and its significance	3	Emp, S, Ent
CO5	Students will gain knowledge about cryo-preservation, rDNA technology, gene transfer methods, PCR,molecular markers, MAS and transgenics	3	Emp, S, Ent

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Course Name **Introductory Biology Lab**
Course Code **AG3140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about morphology of flowering plants	2	Emp
CO2	Students will learn about the root, stem and leaf structures and their modifications.	2	Emp
CO3	Students will learn about Inflorescence, flower and fruits.	2	Emp
CO4	Students will learn about cell and tissues and cell division	2	Emp
CO5	Students will learn about preparation of slides	3	Emp

Course Name **Fundamentals of Agronomy Lab**
Course Code **AG3141**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to identify seeds, crops, fertilizers, pesticides and weeds	3	Emp, S, Ent
CO2	Students would learn about fertilizer application, seed viability, yield contributing characters and yield estimation	3	Emp, S, Ent
CO3	Students will learn about tillage implements	3	Emp, S, Ent
CO4	Students will be able to learn about soil moisture measuring devices and process.	3	Emp, S, Ent
CO5	Students will learn to calculate fertilizer requirement, plant population, herbicides and water requirement.	3	Emp, S, Ent

Course Name **English communication Lab**
Course Code **EG3141**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to develop public speaking abilities.	3	Emp, Ent
CO2	Students would learn Listening comprehension exercises	2	Emp
CO3	Students will be able to speak up over each & every topic.	3	Emp, Ent
CO4	Students will be able to increase self-awareness about English language.	2	Emp

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CO5	Students will learn professional communication.	3	Emp, Ent

Course Name **Fundamentals of Soil Science Lab**
Course Code **AG 3142**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will acquaint with different soil sampling tools and soil sampling method	3	Emp, S
CO2	Students will learn to study the soil profile, soil forming rocks and minerals	3	Emp, S, Ent
CO3	Students will learn to determine soil density, moisture content and porosity	3	Emp
CO4	Students will learn to determine soil texture, soil pH and EC	3	Emp, S, Ent
CO5	Students will learn to estimate the organic matter content of soil	3	Emp, S

Course Name **Introduction to Forestry Lab**
Course Code **AG3143**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will gain knowledge on the Forest and Forest Policies in India	3	Emp, S
CO2	It will provide Hands on training using tools andequipments in forestry	3	Emp, S, Ent
CO3	Students will exposed to various forest based industries	3	Emp
CO4	Students will learn about forest menstruation appropriate tools and techniques and its management objectives	3	Emp, S, Ent
CO5	Students will know, understand, and articulate essential principles of sustainable forestry	3	Emp, S

Course Name **Fundamentals of Horticulture Lab**
Course Code **AG3144**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will gain knowledge on the fundamentals of horticulture.	3	Emp, S
CO2	It will provide hands on training on various sexual and asexual methods of propagation	3	Emp, S, Ent

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CO3	Students will learn about layout and planting of orchard	3	Emp
CO4	Students will learn about important cultural practices for major fruit and plantation crops.	3	Emp, S, Ent
CO5	Students will raise the nurseries of different vegetable crops for commercial purpose.	3	Emp, S

Course Name **Fundamentals of Plant Biochemistry and Biotechnology Lab**
Course Code **AG3145**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about preparation of solutions, buffer, qualitative tests of carbohydrates and amino acids	2	Emp
CO2	Students will learn about quantitative estimation of glucose/proteins and titration methods for estimation of amino acids/lipids	3	Emp, S, Ent
CO3	Students would learn preparation of stock solutions for MS nutrient medium	3	Emp, S, Ent
CO4	Students would learn callus induction from various explants	3	Emp, S, Ent
CO5	Students would learn about basic steps of DNA isolation, gel electrophoresis techniques and DNA finger printing	3	Emp, S, Ent

Course Name **Human Values & Ethics**
Course Code **PS3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Identify and analyze an ethical issue in the Course matter under investigation or in a relevant field	2	Emp
CO2	Identify the multiple ethical interests at stake in a real-world situation or practice	2	Emp
CO3	Articulate what makes a particular course of action ethically defensible	3	Emp
CO4	Assess their own ethical values and the social context of problems	3	Emp
CO5	Identify ethical concerns in research and intellectual contexts, including academic integrity, use and citation of sources, the objective presentation of data, and the treatment of human	3	Emp

Course Name **Fundamentals of Agricultural Economics**
Course Code **AG3203**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will able to understand the concepts, scope and importance of Agricultural economics	2	Emp,
CO2	Students will understand the framework about consumer behavior, producer behavior and analyzing consumer-producer decisions.	2	Emp, S
CO3	Students will understand the role-played by cost and revenue in long run and short run-in different market structure and thus direct firms and industries for minimization of cost and maximization of revenue.	3	Emp, S
CO4	Students will be able to understand macroeconomic concepts like National economy, population, money, inflation and deflation.	3	Emp, S
CO5	Students will understand the banking system and credit policies and practices	3	Emp, S

Course Name **Fundamentals of Plant Pathology**
Course Code **AG3204**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will get knowledge about different pathogenic organism and symptoms of disease caused by them	3	Emp, S
CO2	Fungi as a pathogen and diseases caused by them in plants	3	Emp, S, Ent
CO3	Bacteria as a pathogen and diseases caused by them in plants	3	Emp
CO4	Virus as a pathogen and diseases caused by them in plants	3	Emp, S, Ent
CO5	Nematode as a pathogen and diseases caused by them in plants	3	Emp, S

Course Name **Soil and Water Conservation Engineering**
Course Code **AG3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about Soil erosion - causes and types, agents, factors affecting soil erosion	2	Emp
CO2	Students will learn about parameters to measure soil erosion	2	Emp

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CO3	Engineering structures to control soil erosion	3	Emp, S
CO4	Students would learn about principles of gully control - vegetative measures, temporary structures and diversion drains, Grassed waterways and design.	3	Emp, Ent
CO5	Students will learn the effect of wind on soil erosion.	2	Emp

Course Name **Agricultural Microbiology**
Course Code **AG3206**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will gain the knowledge on basics and importance of Microbiology, characterization of microbes along with microbial structure	2	Emp
CO2	Students will understand the structure and function of various organelles in microbes with their nature of gene transfer	3	Emp
CO3	Students will understand about the biogeochemical cycles of carbon, nitrogen, phosphorus, and Sulphur, and the influence of human activities	2	Emp
CO4	Students will be able to understand the beneficial effects of interactions of microbes and plants and mechanism of biological nitrogen fixation.	3	Emp, Ent
CO5	Students will be able to understand the applications of microbes in human welfare for sustainability	3	Emp, Ent

Course Name **Fundamentals of Agricultural Extension Education**
Course Code **AG3207**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will understand that how an extension personal acts as bridge between farmer and scientists	2	Emp
CO2	Students will gain Knowledge about different pre independence and post-independence programmes	2	Emp
CO3	Students will learn about evaluation and new trends in Agriculture extension	3	Emp, Ent
CO4	Students will understand about different steps taken by agricultural scientists to raise the agriculture sector	3	Emp, Ent
CO5	Students will learn about monitoring, evaluation of extension program, concept of transfer of technology and capacity building of extension personnel	3	Emp, Ent

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Course Name **Fundamentals of Crop Physiology**
Course Code **AG3208**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	By the end of this course students will be able to learn about different cell organelles in plant	2	Emp
CO2	By the end of this course students will be able to enhance photosynthetic efficiency of their crops	3	Emp
CO3	By the end of this course students will be able to understand internal processes of plants.	2	Emp
CO4	By the end of this course students will be able to describe and distinguish role of hormones in plants	3	Emp
CO5	By the end of this course students will be able to distinguish different plants on the basis of their appearance & about their physiological activity	2	Emp

Course Name **Fundamentals of Entomology**
Course Code **AG3209**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to know about the background and history of entomology in India and will also be aware about the relationship of insects with other arthropods.	2	Emp
CO2	Students will be able to know about the external morphology, physiology and anatomy of insects	2	Emp
CO3	Students will gain knowledge about the different methods of pest control and use of chemicals in the prevention of insects.	3	Emp, S, Ent
CO4	Students will understand about the use of systematicin insect class and also learn some important order of insect class.	2	Emp
CO5	Students will learn about the practical methods of preservation of insects, sampling techniques and using of appliances in prevention of pests.	3	Emp, S, Ent

Course Name **Fundamentals of Genetics**
Course Code **AG3213**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will understand Pre and Post Mendelian theories, Mendel's law of heredity and calculation of Chi-Square test.	2	Emp
CO2	Students will gain the knowledge about chromosome structure, special types of chromosomes and different types of cell division.	2	Emp
CO3	Students will get knowledge about different gene interactions, sex determination, sex linkage, theory of linkage, crossing over and multiple alleles.	3	Emp
CO4	Student will get knowledge about qualitative and quantitative inheritance, cytoplasmic inheritance, chromosome aberrations, polyploidy & mutation.	3	Emp
CO5	Students will learn about the DNA structure, DNA replication, nature of genetic material, gene structure, gene regulation, gene expression & protein synthesis.	2	Emp

Course Name **Agricultural Microbiology Lab**
Course Code **AG3240**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to identify microbes from various sources	2	Emp,S
CO2	Students will be able to visualize and isolate microbes from various sources.	2	Emp,S
CO3	Students are exposed to various laboratory equipment's which might help them for its better applications in near future.	3	Emp, S
CO4	Student will learn plant microbe interactions	3	Emp, S
CO5	Student will study role of plants in antimicrobial activity	3	Emp, S, Ent

Course Name **Fundamentals of Agricultural Extension Education Lab**
Course Code **AG3241**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to apply new trends in agricultural extension like private extension, market led extension, expert systems, farmer led extension and cyber extension	2	Emp
CO2	Students will able to develop and prepare extension literature such as leaflets, booklets, etc.	3	Emp,S
CO3	Students will be developing their presentation skills exercise while visiting farmers field	3	Emp, S

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CO4	Students will be able to learn about different organizational setup of DRDA and other departments at district level.	2	Emp
CO5	Students will be able to apply communication strategies using agricultural journalism for innovation, diffusion and adoption of agricultural technology.	3	Emp, S, Ent

Course Name **Fundamentals of Crop Physiology Lab**
Course Code **AG3242**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	At the end of the Course, student will collect the knowledge about the structure of cell and cell division.	2	Emp
CO2	At the end of the Course students will be able to know about the Photosynthesis process & learn to determine the rate of photosynthesis and respiration.	2	Emp
CO3	At the end of the Course students will learn about the metabolic process in plants i.e, osmosis, diffusion, transpiration.	2	Emp
CO4	By the end of this course students will be able to describe and distinguish role of hormones in plants	2	Emp
CO5	By the end of this course students will be able to distinguish different plants on the basis of their appearance & about their physiological activity.	3	Emp, S

Course Name **Fundamentals of Entomology Lab**
Course Code **AG3243**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students would learn about the insect collection and preservation, types of insect antennae, mouth parts and legs	2	Emp
CO2	Students would learn about the external features and digestive system of grass hopper	2	Emp
CO3	Students will learn about pesticide appliances and their maintenance	3	Emp, S, Ent
CO4	Students will learn sampling techniques for estimation of insect population and damage	2	Emp
CO5	Students will learn about characters of different orders i.e., Orthoptera, Dictyoptera, Odonata, Isoptera, Thysanoptera, Hemiptera, Lepidoptera, Neuroptera, Coleoptera, Hymenoptera, Diptera.	3	Emp, S

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Course Name **Fundamentals of Plant Pathology Lab**
Course Code **AG3244**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students would learn about compound microscope and its different components & different laboratory equipment's and their principle and uses, isolation of the fungal plant pathogens from affected plant parts (leaf) and prove Koch' postulates	3	Emp, S
CO2	Students would learn about the different structures of fungi, symptoms of various plant diseases and also study phanerogamic plant parasites	3	Emp, S, Ent
CO3	Students would learn about fungicides and their formulations, preparation of fungicidal solutions, slurries and pastes and their applications along with precautions in their handling, sampling and extraction of nematodes from soil and plant material and preparation of nematode mounting	3	Emp
CO4	Students would learn about the staining of pathogenic bacteria.	3	Emp, S, Ent
CO5	Students would learn about the identification and transmission of plant virus	3	Emp, S

Course Name **Soil and Water Conservation Engineering Lab**
Course Code **AG3245**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students would learn about general status of soil conservation in India, estimation of soil loss and measurement of soil loss	3	Emp, S
CO2	Students would learn about preparation of contour maps	3	Emp, S
CO3	Students would learn about design of contour bunds	3	Emp, S
CO4	Students would learn about design of graded bunds	3	Emp, S
CO5	Students would learn about problem on wind erosion	3	Emp, S

Course Name **Fundamentals of Genetics Lab**
Course Code **AG3248**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will understand Pre and Post Mendelian Theories	2	Emp

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CO2	Students will gain the knowledge about chromosome structure	2	Emp
CO3	Students will get knowledge about different gene interactions	3	Emp
CO4	Students will get knowledge about Qualitative and Quantitative inheritance	3	Emp
CO5	Students will learn about the DNA structure	2	Emp

Course Name **United Nations Development Programme**
Course Code HU3202

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about the Structure, Mission, Vision and Goals of UNDP	2	S
CO2	Equip the students with the knowledge of sustainable livelihoods for inclusive economic growth.	2	S
CO3	Students will learn and explore about the Human Development index to promote well being at all ages.	2	S
CO4	To impart better education on SDGs goals focusing on Gender Equality and Provide Access to Justice to All and Build Effective.	3	N
CO5	Students will develop knowledge regarding environment sustainability.	3	N

Course Name **Environmental Studies and Disaster Management**
Course Code **CY3305**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will able to understand the scope and importance of ecosystem	3	Emp, S
CO2	Students will understand usage of renewable and nonrenewable resources	3	Emp, S, Ent
CO3	Students will understand about biodiversity and conservation	3	Emp
CO4	Students will be able to understand different types of pollution and their causes	3	Emp, S, Ent
CO5	Students will understand meaning and nature of natural disasters, their types and effects	3	Emp, S

Course Name ***Crop Production Technology - I(Kharif crops)***
Course Code **AG3301**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will gain knowledge about important kharif crops of Uttarakhand	3	Emp, S
CO2	Students will understand about commercial cultivation of cereals; they will use their farming knowledge in field to get good yield	3	Emp, S, Ent
CO3	Students will understand about commercial cultivation of Pulses; they will use their farming knowledge in field to get good yield	3	Emp
CO4	Students will understand about commercial cultivation of OilSeed crops; they will use their farming knowledge in field to get good yield	3	Emp, S, Ent
CO5	Students will understand about commercial cultivation of fiber and forage crops; they will use their farming knowledge in field to get good yield	3	Emp, S

Course Name **Agriculture Finance & Cooperation**
Course Code **AG3302**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	This course aims at imparting knowledge on principles of finance, banking and co –operation and farm financial analyses	2	Emp, S
CO2	Students will learn about source of Agricultural Finance and the finance schemes run by Govt. of India	3	Emp, S, Ent
CO3	Student will learn about Higher financing institutions and their working model	3	Emp
CO4	Student will learn about SWOT analysis	3	Emp, S, Ent
CO5	: Student will learn principlesofcooperation,significanceofcooperativesinIndia na griculture	3	Emp, S

Course Name **Agri-Informatics**
Course Code **AG3303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be aware of the basics in computers, operating systems, data interpretation and statistical analysis along with database management concepts	2	Emp, S
CO2	Students will gain knowledge on concepts of Networks and basics of programming languages in computer	3	Emp, S
CO3	Students will learn about the applications of ICT in agriculture, smart phone apps in agriculture for farm advises and about computer models in agriculture	3	Emp, S,Ent
CO4	Students will gain keen knowledge on geospatial technology for agri-information and decision support system along with expert system	3	Emp, S
CO5	Students will be able to understand the soil information systems for supporting farm decisions and preparing crop planning using IT tools	3	Emp, S,Ent

Course Name **Production Technology for Vegetables and Spices**
Course Code **AG3304**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To impart knowledge on the principles of horticulture, propagation and production techniques of tropical, sub tropical, temperate vegetable and spice crops.	3	Emp, S, Ent
CO2	Students will understand the current applications of vegetable principles and practices: propagation, pest management, production, maintenance, and business practices.	3	Emp, S, Ent
CO3	Students will be able to solve problems and think critically using new knowledge and technological developments in vegetable and spices.	3	Emp, S, Ent
CO4	Students will know about the characteristics of the environment and their influence on plant growth and development	3	Emp, S, Ent
CO5	Students will know about the demonstrate an awareness of diversity within the profession of horticulture and the interplay between horticulture and society in a diverse world through understanding the breadth of diversity (gender, race, culture, religion,etc.); understanding the value of diversity; and knowing how to successfully integrate diverse thought, etc. into the work environment.	3	Emp, S, Ent

Course Name **Farm Machinery and Power**
Course Code **AG3305**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	By the end of this course students will be able to learn various sources of farm power and their uses.	2	Emp, S
CO2	To impart knowledge about working of IC Engines andtheir uses in modern equipments.	2	Emp, S, Ent
CO3	To provide knowledge about various parts of tractors and their mechanism.	3	Emp
CO4	By the end of this course students will be able to understand the financial aspects of using farm power	3	Emp, S, Ent
CO5	By the end of this course students will be able to learn the various implements used in agriculture farm for various purposes.	3	Emp, S

Course Name **Livestock and poultry Management**
Course Code **AG3306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn role of livestock in the national economy. Reproduction in farm animals and poultry, space requirements for different species of livestock and poultry.	3	Emp, S
CO2	Students will learn management of calves, growing heifers and milch animals. Management of sheep, goat and swine, Incubation, hatching and brooding and Management of growers and layers.	3	Emp, S, Ent
CO3	Students will learn about Important Indian and exotic breeds of cattle, buffalo, sheep, goat, swine and poultry and Improvement of farm animals and poultry.	3	Emp
CO4	Students will study digestion in livestock and poultry.	3	Emp, S, Ent
CO5	Students will study livestock and poultry diseases and their prevention and control.	3	Emp, S

Course Name **Fundamentals of Plant Breeding**
Course Code **AG3307**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will gain knowledge about concept, nature and role, major achievements of plant breeding, genetics & plant breeding relationship & modes of reproduction and apomixes	2	Emp
CO2	Students will understand the concepts of self-incompatibility, male sterility, introduction, centres of diversity, heritability and genetic advance	2	Emp
CO3	Students will gain knowledge about breeding methods, handling of segregating population & population improvement schemes	3	Emp, S
CO4	Students will understand heterosis and inbreeding depression, development of inbred lines, hybrids, composite and synthetic varieties, wide hybridization polyploidy application	3	Emp, S
CO5	Student will gain knowledge about mutation breeding, biotic and abiotic stresses, biotechnological tools, IPR, Plant Breeders & Farmer's Rights	3	Emp, S

Course Name **Statistical Methods**
Course Code **MA3303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will display data graphically and interpret graphs: stem plots, histograms, and box plots.	2	Emp
CO2	Students will be able to determine whether two events are mutually exclusive and whether two events are independent. They can calculate probabilities using the Addition Rules and Multiplication Rules	2	Emp
CO3	Students will be able to discuss basic ideas of linear regression and correlation	3	Emp
CO4	Students will recognize, describe, and calculate the measures of the spread of data: variance, standard deviation, and range	2	Emp
CO5	Students will be able to determine application of sampling in agricultural analysis	2	Emp

Course Name **Environmental Studies and Disaster Management Lab**
Course Code **AG3355**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will have hands on experience and perform laboratory work in identifying and analyzing different environmental problems related with water pollution and environmental degradation.	3	Emp, S

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CO2	Students will be trained to use common chemical and biological techniques for the analysis of environmental samples	3	Emp, S, Ent
CO3	Students will be able to examine the interdependence of ecosystems and how the impact of excessive use of fertilizer or nutrient in agriculture land causes surfaceas well as ground water pollution.	3	Emp
CO4	Students will be able to understand different types of pollution and their causes	3	Emp, S, Ent
CO5	Students will understand the environmental policies and practices	3	Emp, S

Course Name ***Crop Production Technology - I(Kharif crops) Lab***
Course Code **AG3340**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Each student will be able to work on an allotted land area for field operations like field preparation to harvest and processing	3	Emp, S
CO2	They can raise wetland rice under exigencies like water scarcity with two irrigated dry crops	3	Emp, S, Ent
CO3	They can cultivate Irrigated puddled lowland rice	3	Emp
CO4	Student will learn cultivation practices of Kharif crops..	3	Emp, S, Ent
CO5	Student will learn identification of Kahrif crops and its weeds	3	Emp, S

Course Name **Agricultural Finance and Co-operation Lab**
Course Code **AG3341**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	This course aims at imparting knowledge on principles of finance, banking and co –operation and farm financial analyses	3	Emp, S
CO2	Students will learn about source of Agricultural Finance and the finance schemes run by Govt. of India	3	Emp, S, Ent
CO3	Student will learn about Higher financing institutions and their working model	3	Emp
CO4	Student will learn about SWOT analysis	3	Emp, S, Ent
CO5	Student will learn principles of cooperation, significance of cooperatives in Indian agriculture	3	Emp, S

Course Name **Agri-Informatics Lab**

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Course Code **AG3342**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about demonstration with DSSAT, CropSyst and Wofost crop simulation models	3	Emp, S,Ent
CO2	Students will be able to provide better agricultural services through ICT initiatives	3	Emp, S
CO3	Students will be able to compute water and nutrient requirements of crop using IT tools	3	Emp, S
CO4	Students will gain knowledge on geospatial technology for agri-information	3	Emp, S
CO5	Students will learn to Prepare contingent crop planning	3	Emp, S

Course Name **Farm Machinery and Power Lab**
Course Code **AG3343**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	At the end of the course student will be able to learn about the component of IC engine and cooling system	3	Emp, S
CO2	Students will get knowledge of fuel supply system of engine and power tiller	3	Emp, S, Ent
CO3	At the end of the course student will be able to learn about the primary and secondary tillage and Seed Cum Fertilizer	3	Emp
CO4	Students will expose to seed-cum-fertilizer drills their seed metering mechanism and calibration, planters and transplanter.	3	Emp, S, Ent
CO5	Students will exposed to different types of sprayers and dusters	3	Emp, S

Course Name **Production Technology for Vegetables and Spices Lab**
Course Code **AG3344**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to raise the nurseries of different vegetable crops for commercial use.	3	Emp, S, Ent
CO2	They will be able to impart knowledge on the principles of horticulture, propagation and production techniques of tropical, sub tropical, temperate vegetable and spice crops.	3	Emp, S, Ent

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CO3	Students will study morphological characters of different vegetables & spices.	3	Emp, S, Ent
CO4	Students will be able to produce various vegetables under poly house as protected cultivation.	3	Emp, S, Ent
CO5	Student will learn to calculate the cost of cultivation in Potato, Tomato, Cauliflower and Okra	3	Emp, S, Ent

Course Name **Livestock and poultry Management Lab**
Course Code **AG3345**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about external body part of cattle, buffalo, sheep, goat, swine and poultry	3	Emp, S
CO2	Students will be able to understand handling and restraining of livestock and identification methods of farm animals and poultry	3	Emp, S, Ent
CO3	Students will learn about culling of livestock and poultry and planning and layout of housing for different types of livestock	3	Emp
CO4	Students will be able to understand clean milk production techniques and milking methods in farm animals	3	Emp, S, Ent
CO5	Students will be able to understand economics of cattle, buffalo, sheep, goat, swine and poultry production	3	Emp, S

Course Name **Fundamentals of Plant Breeding Lab**
Course Code **AG3346**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about Germplasm Collection, floral structure and emasculation & hybridization in self & cross pollinated crops.	3	Emp, S
CO2	Students will be able to handle segregation generation, different experimental designs and understand concept of male sterility.	3	Emp, S, Ent
CO3	Students would learn about basic statistical methodsand concept of Inbreeding depression in plant breeding	3	Emp
CO4	Students will gain knowledge about breeding methods.	3	Emp, S, Ent
CO5	Student will gain knowledge about biotic and abiotic stresses.	3	Emp, S

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Course Name **Statistical Methods Lab**
Course Code **MA3350**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will apply various sampling methods for data collection and display graphically with interpretation using graphs: stem plots, histograms and box plots.	3	Emp
CO2	Students will recognize, describe and calculate the measures of the spread of data: variance, standard deviation and range	3	Emp
CO3	Student will create and interpret a line of best fit and Calculate and interpret the correlation coefficient	2	Emp
CO4	Students will learn analysis of Test of Significance	3	Emp
CO5	Student will learn the calculation of One way and Two way analysis of variance	3	Emp

Course Name **Indian Knowledge System**
Course Code **HU3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will be able to understand the Indian Knowledge System such as historical development, sources and scope.	2	S
CO2	The students will be able to understand the vocabulary system of Indian knowledge system.	2	S
CO3	The students will be able to understand and apply the philosophical foundations and methods of IKS.	3	N
CO4	The students will be able to execute the case studies based on the Indian knowledge system.	3	N
CO5	The students will be able to understand the influence of Indian Knowledge System on world.	2	S

Course Name **Problematic Soils and their Management**
Course Code **AG3401**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	By the end of this course students will gain knowledge on basics in soil and its properties with its problem	2	Emp

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CO2	By the end of this course students will be able to learn about physical and chemical properties of soil	2	Emp
CO3	By the end of this course students will be able to illustrate the irrigation methods	3	Emp, S
CO4	By the end of this course students will be able to demomstrate the application of remote sensing	3	Emp, S
CO5	By the end of this course students will be able to learn about the soil problems in different agro ecosystem	3	Emp

Course Name **Introductory Agro-Meteorology & Climate Change**
Course Code **AG3402**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	By the end of this course students would have obtained knowledge on atmospheric gases and its layers.	2	Emp
CO2	Students would have gained knowledge on wind, cyclone, anticyclone and solar radiation.	2	Emp
CO3	Students would have gained knowledge on atmospheric temperature and concepts of saturation.	2	Emp
CO4	Students would have gained knowledge on cloud formation and artificial cloud making	2	Emp
CO5	Students would have gained knowledge on climate change	2	Emp

Course Name ***Crop Production Technology– II (Rabi crops)***
Course Code **AG3403**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of important Rabi crops of Uttarakhand region.	3	Emp, S
CO2	To understand about Cultivation practices of Cereals – wheat and barley; Pulses-chickpea, lentil, peas.	3	Emp, S, Ent
CO3	To gain knowledge about cultivation practices of forage crops-berseem, lucerne and oat.	3	Emp
CO4	To gain knowledge about cultivation practices of oilseeds-rapeseed, mustard and sunflower; sugar crops-sugarcane	3	Emp, S, Ent
CO5	To gain knowledge about cultivation practices of medicinal and aromatic crops-mentha, lemon grass and citronella.	3	Emp, S

Course Name **Production Technology for Ornamental Crops, MAP and Landscaping**

Course Code **AG3404**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about the ornamental crops, medicinal and aromatic plants and landscaping	3	Emp, S,Ent
CO2	Students will be aware of production technology of flowers like rose, marigold, poppy, primulas, gerbera, carnation, lilium, orchids and gladiolus, tuberose, chrysanthemum underopen condition	3	Emp, S,Ent
CO3	Students will be able to know about the package of practices for loose flowers like marigold and jasmine	3	Emp, S,Ent
CO4	Students will learn about production technology of importantmedicinal plants	3	Emp, S
CO5	Students will know about processing and value addition in ornamental crops and MAPs produce	3	Emp, S

Course Name **Production Technology for Fruit and Plantation Crops**

Course Code **AG3405**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will gain brief knowledge of importance and different career in fruit science	3	Emp, S
CO2	Students will be able to understand the farming system in different fruit crops	3	Emp, S, Ent
CO3	Students will be able to understand the different growing techniques of temperate fruit	3	Emp
CO4	Students will be able to understand the best growing techniques of minor fruit	3	Emp, S, Ent
CO5	Students will be able to understand the ideal farming system in different plantation crops	3	Emp, S

Course Name **Renewable Energy and Green Technology**

Course Code **AG3406**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	To understand the role of renewable sources in agriculture Sector	2	Emp
CO2	To understand the bio fuel production and their applications in today's world	3	Emp, S
CO3	To understand and utilizing the solar energy in various aspects	3	Emp, S,Ent
CO4	Students will gain practical aspects of utilizing various renewable energy like solar energy, wind energy and other energy efficient technologies, etc	3	Emp, S,Ent
CO5	To gain the knowledge on climate change and disaster management	3	Emp, S

Course Name **Principles of Seed Technology**
Course Code **AG3407**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	By the end of this course students will be able to recognize and memorise the basic introduction of seed and quality seed parameters	2	Emp
CO2	By the end of this course students will be able to know about seed production methods in different crops.	3	Emp, S
CO3	By the end of this course students will be able to Know about the legislation system related to seed.	2	Emp
CO4	By the end of this course students will be able to know about the storage and processing methods of seed	3	Emp, Ent
CO5	By the end of this course students will be able to learn about marketing of seed.	3	Emp, Ent

Course Name **Agricultural Marketing Trade & Price**
Course Code **AG3408**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Identify elements of business success in agriculture and food-processing as well as elements that determine economic role of agriculture in national economy.	3	Emp, S
CO2	An efficient agricultural marketing system leads to the optimization of resource use and output management	3	Emp, S, Ent

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CO3	An efficient marketing system ensures higher levels of income for the farmers by reducing the number of middlemen or by restricting the commission on marketing services and the malpractices adopted by them in the marketing of farm products	3	Emp
CO4	An improved and efficient system of agricultural marketing helps in the growth of agrobased industries and stimulates the overall development process of the economy. Many industries depend on agriculture for the supply of raw materials.	3	Emp, S, Ent
CO5	This course aims at imparting knowledge on principles of finance, banking and co –operation and farm financial analyses.	3	Emp, S

Course Name **Farming System and Sustainable Agriculture**
Course Code **AG3409**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will get knowledge about farming system types, components and its maintenance	2	Emp, S
CO2	Students will gain knowledge about different cropping system and cropping pattern and allied enterprises of farming system	3	Emp, S
CO3	Students will learn about meaning, problems, impact and different techniques of sustainable agriculture and their management	3	Emp, S
CO4	Student will learn about objectives, characteristics, components, advantages and site-specific model of Integrated Farming System	3	Emp, S,Ent
CO5	Students will gain knowledge about resource use efficiency, optimization techniques, Resource cycling and flow of energy in different farming system	3	Emp, S,Ent

Course Name **Introductory Agro-Meteorology & Climate Change Lab**
Course Code **AG3440**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn the basic concepts of Agro Meteorology	2	Emp
CO2	Students will be able to deal with the relationship between weather/climatic conditions and agricultural production.	3	Emp, S, Ent
CO3	Student will be able to determine the climatic features, air temperature, humidity etc.	3	Emp

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CO4	Students would have gained knowledge on cloud formation and artificial cloud making.	3	Emp, Ent
CO5	Students would have gained knowledge on climate change	3	Emp

Course Name ***Crop Production Technology– II (Rabi crops) Lab***
Course Code **AG3441**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students would learn about the sowing methods of wheat and sugarcane	3	Emp, S
CO2	Students would learn to identify weeds in rabi season crops	3	Emp, S, Ent
CO3	Students would learn about yield contributing characters and morphological characters of rabi crops	3	Emp
CO4	Students would learn about estimation of heterosis, inbreeding depression and heritability and also learn handling of germplasm and segregating populations by different methods like pedigree, bulk and single seed decent methods	3	Emp, S, Ent
CO5	Students would learn about field techniques for seed production and hybrid seeds production in rabicrops	3	Emp, S

Course Name **Production Technology for Ornamental Crops, MAP and LandscapingLab**
Course Code **AG3442**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will become aware about the ornamental plants	3	Emp, S,Ent
CO2	Student will learn about the medicinal and aromatic plants.	3	Emp, S,Ent
CO3	Student will be aware about the training and pruning of ornamental plants	3	Emp, S
CO4	Students will learn about production technology of important medicinal plants	3	Emp, S
CO5	Students will know about processing and value addition in ornamental crops and MAPs produce	3	Emp, S,Ent

Course Name **Production Technology for Fruit and Plantation Crops Lab**
Course Code **AG3443**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand planting system and morphology of fruit and plantation crops and different forms and external structures of fruit	3	Emp, S
CO2	Students will be able to get Knowledge of the seed propagation & different methods of seed treatment & the various seed treatment methods for breaking dormancy	3	Emp, S, Ent
CO3	Students will be able to apply the sexual and asexual propagation techniques in horticulture plants	3	Emp
CO4	Students will be able to understand the role of different bio regulators	3	Emp, S, Ent
CO5	Students will be able to understand the different insect-pests of fruit and plantation crops and their management	3	Emp, S

Course Name **Renewable Energy and Green Technology Lab**
Course Code **AG3444**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the role of renewable sources in agriculture sector	3	Emp, S
CO2	To understand the bio fuel production and their applications in today's world	3	Emp, S
CO3	To understand and utilizing the solar energy in various aspects	3	Emp, S
CO4	Students will have Basic Knowledge about biogas plants	3	Emp, S,Ent
CO5	Students will gain the knowledge about the process of bio-fuels	3	Emp, S

Course Name **Principles of Seed Technology Lab**
Course Code **AG3445**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about the quality parameters of seed	3	Emp, S
CO2	Students will learn about the seed production technology in different crops	3	Emp, S
CO3	Students will learn about the seed processing technology	3	Emp, S,

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CO4	Students will be able to understand grow out test and electrophoresis techniques	3	Emp, S, Ent
CO5	Students will be able to understand seed production farms, seed testing laboratories and seed processing plant	3	Emp, S, Ent

Course Name **Agricultural Marketing Trade and Price Lab**
Course Code **AG3446**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The course will give the exposure to the students on market concepts, marketing of agricultural commodities, intermediaries involved	3	Emp, S
CO2	It will impart knowledge on principles of finance, banking and co –operation and farm-financial analysis	3	Emp, S, Ent
CO3	This course will also help in understanding the functions of various institutions involved in farm financing and different crop insurance products	3	Emp
CO4	This course will also help in forecasting the price, demand and supply	3	Emp, S, Ent
CO5	Understand nature and scope of financial management in agribusiness	3	Emp, S

Course Name **Food Safety and Standards**
Course Code **AG3416**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	By the end of this course students will be able to learn about food safety	3	Emp, S
CO2	By the end of this course students will be able to keep food safely from different hazards	3	Emp, S, Ent
CO3	By the end of this course students will be able to understand food safety management system	3	Emp
CO4	By the end of this course students will be able to learn different rules and laws related to food safety	3	Emp, S, Ent
CO5	By the end of this course students will be able to learn about labeling of food	3	Emp, S

Course Name Food Safety and Standards Lab
Course Code AG3445

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	At the end of the course students will be able to learn about the personal hygiene and the methods of sanitization	3	Emp, S
CO2	At the end of the course students will be able to learn about to determine the constituents and amount of alkalinity of the supplied water sample	3	Emp, S, Ent
CO3	At the end of the course students will be able to learn about the Preparation of plan for implementation of FSMS-HACCP	3	Emp
CO4	At the end of the course students will be able to learn about the microorganisms to degrade the amino acid tryptophan.	3	Emp, S, Ent
CO5	At the end of the course students will be able to learn about how to calculate the presence of coliform bacteria in water.	3	Emp, S

Course Name **Manures, Fertilizers and Soil Fertility Management**
Course Code **AG3501**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To impart knowledge of fertilizers and manures as sources of plant nutrients	3	Emp, S
CO2	To provide knowledge and function of essential primary, secondary & micronutrients fertilizer on crop production	3	Emp, S, Ent
CO3	Students will know how the soil fertility and productivity can be maintained for better crop production	3	Emp
CO4	To provide knowledge chemistry of major, minor & micronutrients, which are available in soil in several forms	3	Emp, S, Ent
CO5	Students will know the requirements of fertilizers for various crops and their proper time of application and provide knowledge of rapid plant tissue tests and indicator plants	3	Emp, S

Course Name *Crop Improvement – I (Kharif)*
Course Code AG3502

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will learn importance of wild relative to produce new variety of kharif crop	3	Emp, S
CO2	Students will learn Gene preservation method for further use to improve kharif crops.	3	Emp, S, Ent
CO3	Students will learn to applies breeding methods to improve kharif crops	3	Emp
CO4	Students will learn to identification of resistance gene relate to kharif crop with high yield potential against pest and pathogen and utilization genes.	3	Emp, S, Ent
CO5	By the end of this course students learn new genetic approaches to achieve a definite ideotype of kharif crop	3	Emp, S

Course Name **Intellectual Property Rights**
Course Code **AG3503**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will gain knowledge on basics in IPR	2	Emp, S
CO2	Students will able to understand about patent and patent filling	3	Emp, S
CO3	Students will be able to illustrate the rights of farmers and researchers	3	Emp, S
CO4	Students will be able to know about different treaty over IPR	2	Emp, S
CO5	Students will be able to understand about UPOV and acts over biodiversity	3	Emp, S

Entrepreneurship Development and Business
Course Name **Communication**
Course Code **AG3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will understand the function of the entrepreneur in the successful, commercial application of innovations	3	Emp, S,Ent
CO2	Students will be aware of different opportunities and successful growth in Business and can improve communication and problem-solving skills, manage strong impulses and feelings	3	Emp, S
CO3	Students should learn organizational skill viz	3	Emp, S,Ent
CO4	Students will gain knowledge to develop and demonstrate competence in basic business and marketing planning and basic knowledge of international business	3	Emp, S,Ent

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CO5	Students will gain knowledge on different concepts underlying corporate financial decision making and student also understand different opportunity in agri-business	3	Emp, S,Ent

Course Name **Geoinformatics and Nanotechnology and Precision Farming**
Course Code **AG3505**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student would learn about precision agriculture and Geo-informatics- their uses in Precision Agriculture	3	Emp, S
CO2	Student would learn about crop discrimination and yield monitoring, soil mapping; fertilizer recommendation using geospatial technologies; Spatial data and their management in GIS; Remote sensing concepts and application in agriculture; Image processing and interpretation	3	Emp, S
CO3	Student would learn about Global positioning system (GPS), components and its functions; crop Simulation Models and their uses for optimization of Agricultural Inputs; STCR approach for precision agriculture	3	Emp, S,Ent
CO4	Student would learn about nanotechnology- definition, concepts and techniques, nano scale effects, nano-particles, nano-pesticides, nano-fertilizers, nano-sensors	3	Emp, S,Ent
CO5	Student would learn about use of nanotechnology in seed, water, fertilizer, plant protection for scaling-up farm productivity	3	Emp, S

Course Name **Principles of Integrated Pest and Disease Management**
Course Code **AG3506**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand, what is a pest and disease and categories of Pest and diseases.	2	Emp
CO2	Students will be able to understand, IPDM and tools of IPDM.	2	Emp
CO3	Students will be able to understand, cultural, mechanical, physical, biological, microbial and legislative methods of pest and disease management.	3	Emp, S, Ent
CO4	Students will be able to understand, chemical control of pests and diseases	3	Emp, S, Ent

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CO5	Students will be able to calculate and applying insecticides and fungicides.	3	Emp, S, Ent

Course Name **Pests of Crops and Stored Grains and their Management**
Course Code **AG3507**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be familiar in identification of different insect pest of field, horticulture, ornamentals, vegetables and stored grains at the field level	2	Emp
CO2	Students will understand how insects affect animal and plant health and agricultural production, and be able to safely manipulate populations of beneficial and destructive species in habitats	3	Emp, S
CO3	Students will be able about the biology, diversity, distribution of insects, and their relationships to crop and the environment condition of a particular area	3	Emp, S
CO4	Students will be able to identify nature of damage and symptoms caused by the pest so suitable technique of pest management can be apply for effective control	3	Emp, S, Ent
CO5	Management of crop pest through Integrated Pest Management approach without side effect on plant, animal and environment health	3	Emp, S, Ent

Course Name **Diseases of Field & Horticultural Crops & their Management-I**
Course Code **AG3508**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will study about important taxonomic characters and symptoms produced by important microorganisms in order to manage them.	2	Emp
CO2	Students will gain knowledge on plant disease management by different methods.	3	Emp, S
CO3	Students will gain the knowledge on different diseases in field and horticultural crops	2	Emp
CO4	Students will gain the knowledge mass multiplication of biocontrol agents like Trichoderma viride, Pseudomons fluorescens and Bacillus subtilis and alsolearn about the method of applications	3	Emp, S, Ent
CO5	Students will learn diseases of various field crops and horticultural crops and to know their management practices.	3	Emp, S, Ent

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Course Name **Manures, Fertilizers and Soil Fertility Management Lab**
Course Code **AG3540**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student will be able to understand the analytical instruments and their principles.	3	Emp, S
CO2	Students will learn to analyze the estimation of soil organic carbon and alkaline hydrolysable N in soils	3	Emp, S, Ent
CO3	Students will learn to analyze the estimation of soil extractable P and S in soils.	3	Emp
CO4	Students will learn to analyze estimation of DTPA extractable Zn in soils. Estimation of N and P in plants.	3	Emp, S, Ent
CO5	Students will learn to analyze estimation of K and S inplants.	3	Emp, S

Course Name ***Crop Improvement – I (kharif crops) Lab***
Course Code **AG3541**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will get knowledge on crop improvement technologies of different kharif crops.	3	Emp, S
CO2	Students will learn to applies breeding methods to improve kharif crops	3	Emp, S, Ent
CO3	Students will learn to identification of resistance gene relate to kharif crop with high yield potential against pest and pathogen and utilization genes.	3	Emp
CO4	Student will learn techniquesforseedproduction and hybrid seeds production in Kharif crops	3	Emp, S, Ent
CO5	Students will learn to develop seed production farm	3	Emp, S

Entrepreneurship Development and Business
Course Name **Communication Lab**
Course Code **AG3542**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will learn to assess entrepreneurial traits of entrepreneur	3	Emp, S,Ent
CO2	It will develop student's problem solving skills, managerial skills and entrepreneurial motivation	3	Emp, S,Ent

CO3	Student will learn about time audit through planning, monitoring and supervision which will develop creative skills, like problem-solving, communication and innovation through creative exercise	3	Emp, S
CO4	Students would learn about identification and selection of business idea	3	Emp, S
CO5	Students will be able to prepare a business plan and proposal writing	3	Emp, S,Ent

Course Name **Geoinformatics and Nanotechnology and PrecisionFarming Lab**

Course Code **AG3543**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students would introduce to GIS software, spatial data creation and editing and image processing software	3	Emp, S,Ent
CO2	Students would learn about visual and digital interpretation of remote sensing images	3	Emp, S
CO3	Students would learn to generate spectral profiles of different objects	3	Emp, S
CO4	Students would learn about supervised and unsupervised classification and acreage estimation	3	Emp, S
CO5	Student would learn about fertilizers recommendations based on VRT and STCR techniques and also learn aboutformulation, characterization and applications of nanoparticles in agriculture	3	Emp, S

Course Name **Principles of Integrated Pest and Disease Management Lab**

Course Code **AG3544**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to know about the important taxonomic characters and symptoms produced by important microorganisms in order to manage them	2	Emp, S
CO2	They will gain the knowledge on different diseases in the field and horticultural crops	3	Emp, S
CO3	It imparts knowledge on plant disease management by different methods	3	Emp, S, Ent
CO4	Student will be able to know about the Plan & assess preventive strategies (IPM module) and decision-making crop monitoring attacked by insect, pests' and diseases.	3	Emp, S, Ent

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CO5	The students will be able to understand, apply, analyze and evaluate different methods of pest management.	2	Emp, S, Ent

Course Name **Pests of Crops and Stored Grains and their Management Lab**
Course Code **AG3545**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will know about pest of crops and stored grains like cereals, pulses, oilseeds and their management	3	Emp, S
CO2	They will gain the knowledge on climate change and its management	3	Emp, S
CO3	It will make students to gain expertise in practical aspects of warehouse management	3	Emp, S, Ent
CO4	Students will able to know about the determination of insect infestation by different methods and assessment of losses due to insects.	3	Emp, S, Ent
CO5	Students will able to know about the identification of birds and bird control operations in godowns.	2	Emp, S, Ent

Course Name **Diseases of Field & Horticultural Crops & their Management-I**
Course Code **AG3546**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about diseases of various Field crops and Horticultural crops and to know their management practices	3	Emp, S
CO2	Students will gain the knowledge on different diseases of field and horticultural crops	3	Emp, S
CO3	Students will learn about the Mass multiplication of biocontrol agents like Trichoderma viride, Pseudomons fluorescens and Bacillus subtilis and also learn about the method of applications	3	Emp, S,
CO4	Students will learn about about taxonomic characters and symptoms produced by various pathogens.	3	Emp, S,
CO5	Students would learn about fungicides and their doses to control various plant diseases.	3	Emp, S, Ent

Course Name **Agribusiness Management**
Course Code **AG3510**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to know about the background of agribusiness system and its importance along with the agricultural policy	3	Emp, S
CO2	Students will be aware with the structure of Agro-industries and Agri-value chain in India and at the global level	3	Emp, S, Ent
CO3	Students will be able to know about the Meaning, types, goals and procedures of business planning	3	Emp
CO4	Students will learn about the Capital Management and Financial Management of agribusiness structure	3	Emp, S, Ent
CO5	Students will know about the Consumer Behaviour and Project Management and the pricing policy of institution	3	Emp, S

Course Name **Agribusiness Management Lab**
Course Code **AG 3548**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to know about the background of agribusiness system and its importamce along with the agricultural policy	3	Emp, S
CO2	Students will be aware with the structure of Agro-industries and Agri-value chain in India and at the global level	3	Emp, S, Ent
CO3	Students will be able to know about the Meaning, types, goals and procedures of business planning	3	Emp
CO4	Students will learn about the Capital Management and Financial Management of agribusiness structure	3	Emp, S, Ent
CO5	Students will know about the Consumer Behaviour and Project Management and the pricing policy of institution	3	Emp, S

Course Name **Rainfed Agriculture and Watershed Management**
Course Code **AG3601**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will gain knowledge about meaning, classifications, problems, management and historical background of rainfed farming	2	Emp

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CO2	Students will understand soil types, climatic condition and crop management in rainfed farming	2	Emp
CO3	Students will gain knowledge drought, drought types, drought effects on biometrical and morphological characters on crops and drought management	3	Emp
CO4	Students will understand meaning, importance, application of water harvesting, crop management techniques and its utilization in rainfed area	3	Emp, Ent
CO5	Students will gain knowledge about concept, objectives, principles, components and factors of watershed management	2	Emp, Ent

Course Name **Diseases of Field and Horticultural Crops and their Management-II**
Course Code **AG3603**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will gain knowledge on important taxonomic characters and symptoms produced by important microorganisms in order to manage them	3	Emp, S
CO2	Students will knowledge on plant disease management by different methods	3	Emp, S
CO3	Students will gain knowledge on different diseases in field and horticultural crops	2	Emp, S
CO4	Students will analyze plant health and provide management solutions to farmers	3	Emp, S
CO5	Students will gain knowledge on diseases of various Field crops and Horticultural crops and to know their management practices	2	Emp, S

Course Name **Post-harvest Management and Value Addition of Fruits and Vegetables**
Course Code **AG3604**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about the post harvest management of fruits and vegetables and its importance along with the causes ofpost harvest losses	3	Emp, S, Ent
CO2	Students will be aware with the respiration rate, harvesting and storage structure of fruits and vegetables along with its value addition	3	Emp, S, Ent
CO3	Students will be able to know about the preservation methods of post harvest products, jam, jelly, marmalade, beverages, pickles, etc	3	Emp, S, Ent

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CO4	Students will learn about drying and dehydration method of fruits and vegetables and will study different tomato products	3	Emp, S, Ent
CO5	Students will know about the canning process and conventional to modern packaging systems	3	Emp, S, Ent

Course Name **Management of Beneficial Insects**
Course Code **AG3605**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be introduced with the basic knowledge about the bee keeping and its different components	3	Emp, S
CO2	Students will be able to know about the management of bee diseases and its natural enemies	3	Emp, S, Ent
CO3	Students will be able to know about the concepts of silk farming and mulberry cultivation	3	Emp
CO4	Student will gain knowledge about the processing of silk and its different requirements	3	Emp, S, Ent
CO5	Students will be aware with the study of lac culture and its processing and management	3	Emp, S

Course Name **Farm Management, Production & Resource Economics**
Course Code **AG3606**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will understand the meaning of Farm management and its relationship with other sciences	2	Emp
CO2	Students will learn Principles and economics of farm management	3	Emp, S
CO3	Students will learn the importance of maintaining farm records and their analysis..	2	Emp
CO4	Students will learn the steps in farm planning and budgeting	3	Emp, Ent
CO5	By the end of this course students will be able to learn about role of economics in farm management	3	Emp, Ent

Course Name ***Crop Improvement – II (Rabi crop)***
Course Code **AG3607**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	CO-1: Students will learn importance of wild relative to produce new variety of Rabi crop	2	Emp
CO2	Students will learn Gene preservation method for further use to improve rabi crops.	3	Emp, S
CO3	Students will learn to applies breeding methods to improve rabi crops	2	Emp
CO4	Students will learn to identification of resistance gene relate to rabi crop with high yield potential against pest and pathogen and utilization genes	3	Emp, Ent
CO5	By the end of this course students learn new genetic approaches to achieve a definite ideotype of rabi crop	3	Emp, Ent

Course Name **Principles of Food Science and Nutrition**
Course Code **AG3608**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	By the end of this course students will be able to understand the basic information about food nutrition and composition of food	3	Emp, S
CO2	By the end of this course students will be able to understand microorganism role in food science	3	Emp, S, Ent
CO3	By the end of this course students will be able to illustrate the different methods of food preservation and processing	3	Emp
CO4	By the end of this course students will be able to understand the nutrition value and its disorders	3	Emp, S, Ent
CO5	By the end of this course students will be able to understand about the metabolism process of food components in human body	3	Emp, S

Course Name **Principles of Organic Farming**
Course Code **AG3609**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Initiative from Government for organic produce.	3	Emp, S
CO2	Role of NGOs in producing organic products	3	Emp, S, Ent
CO3	Selection of crops and varieties for organic produce	3	Emp
CO4	Certification of organic produce.	3	Emp, S, Ent
CO5	Students get to know about the organic farming practices.	3	Emp, S

Course Name **Rainfed Agriculture and Watershed Management Lab**
Course Code **AG3640**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn cropping pattern of different rainfed areas and cultural practices for mitigating moisture stress	3	Emp, S
CO2	Students will understand about different types of climate and rainfall pattern in rainfed areas and pattern of onset and withdrawal of monsoons	3	Emp, S
CO3	Students will learn about the construction of water harvesting structures and characterization and delineation of model watershed	3	Emp, S,
CO4	Students will gain knowledge about construction of water harvesting structures	3	Emp, S, Ent
CO5	Students will understand Characterization of model watershed	3	Emp, S, Ent

Course Name **Protected Cultivation and Secondary Agriculture Lab**
Course Code **AG3641**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To get knowledge about green house technology, types of green houses and construction of green houses	3	Emp, S
CO2	Course will give the knowledge of Green house equipments, materials of construction for traditional and low cost green houses	3	Emp, S
CO3	This course will help the students to learn about Irrigation systems used in greenhouses,shade net house in protected cultivation	3	Emp, S,Ent
CO4	Students will learn to determine moisture content of various grains by oven drying methods	3	Emp, S
CO5	Students would gain knowledge about various equipments/ instruments used in Post Harvest Laboratories	3	Emp, S

Course Name **Diseases of Field and Horticultural Crops and their Management-II Lab**
Course Code **AG3642**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students would learn about the identification, diagnosis and study of different diseases of wheat	3	Emp, S

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CO2	Students would learn about the identification, diagnosis and study of different diseases of sugarcane	3	Emp, S
CO3	Students would learn about the identification, diagnosis and study of different diseases of mustard and potato	3	Emp, S
CO4	Students would learn about the identification, diagnosis and study of different diseases of chilies and apple	3	Emp, S
CO5	Students will learn about the diagnosis of field problems during field visits	3	Emp, S

Course Name **Post-harvest Management and Value Addition of Fruitsand Vegetables Lab**
Course Code **AG3643**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students learn about the effect of temperature on qualityof produce after harvest	3	Emp, S
CO2	Students will have knowledge about post harvest injuries of fruits and vegetables	2	Emp
CO3	Student will learn the procedure of extracting and preserving pulps and juices and estimation of physico chemical properties of products.	3	Emp, S, Ent
CO4	Students will learn about preparation of jam, jelly, nectar, squash etc.	3	Emp, S, Ent
CO5	Students will become aware about the modern packaging materials and their effects on product.	2	Emp, S, Ent

Course Name **Management of Beneficial Insects Lab**
Course Code **AG3644**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students would learn the impart knowledge on the economically important insects and principles of insect pest management, including concept and components of IPM	3	Emp, S
CO2	Student will be able to know about honey bee species, castes of bees	3	Emp, S, Ent
CO3	Student will be able to know about mulberry cultivation, mulberry varieties and methods of harvesting and preservation of leaves	3	Emp
CO4	Students would learn about types of silkworm, voltinism and biology of silkworm	3	Emp, S, Ent

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CO5	Students will visit to research and training institutions devoted to beekeeping, sericulture, lac culture and natural enemies	3	Emp, S

Course Name **Farm Management, Production & Resource EconomicsLab**
Course Code **AG3645**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the role of renewable sources in agriculture sector	3	Emp, S
CO2	To understand the bio fuel production and their applications in today's world	3	Emp, S
CO3	To understand and utilizing the solar energy in various aspects	3	Emp, S
CO4	Students will have Basic Knowledge about biogas plants	3	Emp, S,Ent
CO5	Students will gain the knowledge about the process of bio-fuels	3	Emp, S

Course Name ***Crop Improvement – II (Rabi crops) Lab***
Course Code **AG3646**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Studentswill getknowledge oncropimprovement technologies of different Rabi crops.	3	Emp, S
CO2	Students will learn to applies breeding methods to improve rabi crops	3	Emp, S
CO3	Students will learn to identification of resistance gene relate to rabi crop with high yield potential against pest and pathogen and utilization genes.	3	Emp, S
CO4	Student will learn techniques of seed production in Rabi Crops	3	Emp, S,Ent
CO5	Students will gain the develop seed production farm	3	Emp, S

Course Name **Principles of Organic Farming Lab**
Course Code **AG 3647**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Initiative from Government for organic produce.	3	Emp, S
CO2	Role of NGOs in producing organic products.	3	Emp, S, Ent

CO3	Selection of crops and varieties for organic produce	3	Emp
CO4	Students will gain the knowledge about the methods of propagation	3	Emp, S, Ent
CO5	Students will be aware about layout and planting of orchard.	3	Emp, S

Course Name **Agricultural waste management**
Course Code AG3613

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Initiative from Government for organic produce.	3	Emp, S
CO2	Role of NGOs in producing organic products.	3	Emp, S, Ent
CO3	Selection of crops and varieties for organic produce	3	Emp
CO4	Students will gain the knowledge about the methods of propagation	3	Emp, S, Ent
CO5	Students will be aware about layout and planting of orchard.	3	Emp, S

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Bachelor of Arts (Hons) in Journalism

Program Nam **and Mass Communication**

Language & communication Skills Hindi/ English

Course Name **1**

Course Code **JM3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will be able to interpret the various context of the different topics	2	Emp
CO2	Students will be able to simplify and demonstrate the thought and feelings in simplified form	2	S
CO3	Students will be able to communicate in effective manner and disseminate the information in required formats.	2	S
CO4	Students will be able to convert and translate the required content in prescribed formats	3	Ent
CO5	Students will be able to present and create literary content	5	None

Course Name **General Studies & Current Affairs**

Course Code **JM3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should able to memorize Basic Structure of Indian Political System, Brief knowledge of the Constitution of India.	1	Emp
CO2	Student should able to understand National Income, GDP & GNP, agriculture	2	S
CO3	Student should able to memorize about States, Rivers and Dams, Agriculture, Forest reserves.	1	S
CO4	Student should able to understand about Basic of CRPCc& IPC, Article 370, Defamation, CAA and NRC, Copyright Act.	2	Ent
CO5	Student should analysis awareness about current regional, national & international issues and events.	4	Ent

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Course Name **Principle of Print Journalism**
Course Code **JM3103**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should able to remember about definition of news & memorize it & the criteria of a Good Newspaper.	1	Emp
CO2	Student should able to analyze history of newspaper and evolution of printing era.	4	S
CO3	Student should able to memorize about what is news Qualities of News, News Elements, News Value, Hard News & Soft News.	1	Ent
CO4	Student should able to understand about lead 5w+1H, Inverted Pyramid, criteria for News Writing, Principles of News selection.	2	Ent
CO5	Student should able to design newspaper and magazine about eat reporting.	6	S

Course Name **Principles of Mass Communication**
Course Code **JM3104**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should able to remember Communication: Concept, Meaning and Definitions, Need for Communication, Elements of Communication, Types of Communication,	1	Emp
CO2	Student should able to understand about Functions of Mass Communication, Role Of Mass Communication, Channels of Mass Communication	2	S
CO3	Student should able to memorize about different models of communication	1	S
CO4	Student should able to understand theories of communication	2	Ent

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CO5	Student should able to apply about street plays & different awareness programs	3	Emp

Course Name **Introduction to Graphic Design**
Course Code **GD3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The student will be able to understand the basic of concept of sketching and drawing.	2	Emp
CO2	The student will understand the tools and techniques, basic of interface and workspace.	2	S
CO3	The student will create the visual art on various software like Photoshop and Corel draw.	6	S
CO4	The student will be able to create the imaginary characters and their description for sketching and drawing.	6	Ent
CO5	The student will understand the basic concepts of digital painting and digital art.	2	None

Course Name **Fundamentals of Photography**
Course Code **JM3106**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should able to memorize about concept of photography and its process , camera parts and features	1	Emp
CO2	Student should able to understand about the types of camera and lenses and their modes	2	S
CO3	Student should able to memorize about composition and framing of the shot and lighting setup in photography	1	S
CO4	Student should able to understand the basic concept of photo editing and color correction	2	Ent
CO5	Student should able to understand about the combination of lights and use of diffusers and reflectors	2	Emp

Course Name **Disaster Management**

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Course Code **CE3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the basic concepts of disasters and its relationships with development.	1	Em
CO2	Students should be able to understand the approaches of Disaster Risk Reduction (DRR) and the relationship between vulnerability, disasters, disaster prevention and risk reduction.	1	S
CO3	Students should be able to understand the Medical and Psycho-Social Response to Disasters.	1	S
CO4	Students should be able to prevent and control Public Health consequences of Disasters.	2	En
CO5	Students should have awareness of Disaster Risk Management institutional processes in India.	2	None

Language & communication Skills Hindi/ English

Course Name **II**

Course Code **JM3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will be able to interpret the various context of the different topics	4	none
CO2	Students will be able to simplify and demonstrate the thought and feelings in simplified form	3	S
CO3	Students will be able to communicate in effective manner and disseminate the information in required formats.	3	S
CO4	Students will be able to convert and translate the required content in prescribed formats	3	Ent
CO5	Students will be able to present and crate literary content	3	Emp

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Course Name **Reporting & Editing (Print Journalism)**
Course Code **JM3202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to understand the concept of the journalism, their role and responsibility.	2	S
CO2	Students will able to understand the concept of reporting and the beats in reporting ; Political, Crime, Sports etc.	2	S
CO3	Students will able to understand the work functions of news room and its operations.	2	S
CO4	Understand the process of editing in print media; newspapers , magazines etc.	2	Ent
CO5	Understand & Investigate the facts from various sources and able to prepare questions for a specific interview; rewrite news stories from newspapers on national and international issues.	5	Emp

Course Name **Political Scenario in India**
Course Code **JM3203**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understanding the constitution and its elements.	2	Emp
CO2	Students will be able to understand the state and center government and its relations.	2	S
CO3	Students will be able to learn the politics of India and they will analyze it.	1	S
CO4	Students will able to create stories from Major political issues.	6	Ent
CO5	Students will able to define and evaluate the works by state and center government.	2	Emp

Course Name **Design & Graphics**
Course Code **JM3204**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The student will be able to understand the basic of concept of Designing.	2	Emp
CO2	The student will understand the advanced tools and techniques, including interface shortcuts.	2	S
CO3	The student will create the visual art on Photoshop software.	2	S
CO4	The student will be able to create logo and poster designs.	3	Ent
CO5	The student will understand the basic concepts of design for print media.	5	None

Course Name **Disaster Management**
Course Code **CE3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the basic concepts of disasters and its relationships with development.	1	Em
CO2	Students should be able to understand the approaches of Disaster Risk Reduction (DRR) and the relationship between vulnerability, disasters, disaster prevention and risk reduction.	1	S
CO3	Students should be able to understand the Medical and Psycho-Social Response to Disasters.	1	S
CO4	Students should be able to prevent and control Public Health consequences of Disasters.	2	En
CO5	Students should have awareness of Disaster Risk Management institutional processes in India.	2	None

Course Name **Environmental Studies**
Course Code **CY3205**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the nature of Environmental studies & Ecosystem.	2	Emp
CO2	Student will to understand the natural resources, i.e. Renewable &non renewable resources.	2	S
CO3	Understand the level of biological diversity & conservation.	2	S
CO4	Students will able to understand the types of environmental pollution.	3	Ent
CO5	Students will able to understand the concept of sustainability & sustainable development.	5	None

Course Name **Audio Editing**
Course Code **VP3215**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will able to understand the primary knowledge of sound editing and tools of adobe premiere pro.	2	Emp
CO2	Students will able to understand the trending formats of audio recording and mixing globally	2	S
CO3	Students will able to understand the all editing steps, making timeline, adjusting audio pitches etc.	3	S
CO4	Understand about the audio pitches and voice over techniques.	2	S
CO5	Understand how to operate software for transitions and sound effects in the audio	5	Ent

Course Name **Media Laws**
Course Code **JM3301**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to understand the polity and structure of country and government	2	Emp
CO2	Student will understand the formation ,functioning and power of goverment	2	S
CO3	Student will aware the limitation and freedom of media	2	S
CO4	Student will understand the restriction and limitation of press	3	S
CO5	Students will understand the privileges, Power and resposibilities of variouse of institutions	5	None

Course Name **Digital Advancement in Journalism I**
Course Code **JM3305**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The student will able to distinguish and define the concept of digital media and able to explain the role of digital journalism in the development of the society.	2	Emp
CO2	The student will able to understand the new age journalism and it's platforms.	2	S
CO3	The student will able to recognize the concept of internet and able to know the Internet as a tool of Journalism, News portal, News Websites, E-newspapers, E-Magazine, Blogging, Web TV, Web Radio and Citizen Journalism.	2	S
CO4	The students will able to know about the concept of web journalism and differentiate cyber –space and artificially intelligence.	3	Ent
CO5	The students will able to discuss on the law and ethics of new media.	5	Ent

Course Name **Development Communication**

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Course Code **JM3303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The student will able to understand about the development communication, development its meaning, concept, process and models of development	2	Emp
CO2	The student will able to analyze the Agricultural communication and rural development: system –approach in agricultural communication –diffusion of innovation – model of agricultural extension –case studies of communication support to agriculture.	2	S
CO3	The student will able to define role of media in development communication -strategies in development communication,Panchayati Raj -planning at national, state, regional, district, block and village levels.	2	S
CO4	The student will be able to define the development support communication: population and family welfare –health – education and society –environment and development - problems faced in development support communication.	3	Ent
CO5	The student will be able to describe about the Developmental case studies.	5	None

Course Name **Radio Production & Lab**
Course Code **JM3304**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The student will able to describe about the evolution and growth of radio as a medium.	2	Emp
CO2	The student will able to learn about the principles and techniques of audio communication–thinking audio ,grammar of sound, sound production.	2	S

CO3	The student will able to learn about the announcement and speaking on radio.	2	S
CO4	The student will able to understand about the Radio Journalism and Skills of radio news reading.	3	Ent
CO5	The students will be able to create the radio Talk Show, radio interview.	5	None

Course Name **Specialized Reporting and Feature Writing**
Course Code **JM3307**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The student will able to describe about the Freedom of Press, Elements of Journalism.	2	Emp
CO2	The student will be able to define the Essential of good writing, ABCD/Basic of Media Writing (Accuracy, Brevity, Clarity, Discernment)	2	S
CO3	The student will able to understand Organizational structure of TV channels, Beats, Press conference.	2	S
CO4	The student will be able to write Letter, Essay, Article, Column and Feature and news writing	3	Ent
CO5	The student will able to know about the media writing and its steps & elements of writing forPrint:editorial, features &review,	5	Emp

Course Name **Video Editing**
Course Code **VP3315**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The student will able to describe about the video editing and its importance.	2	Emp

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CO2	The students will understand the basic editing tools and techniques of sound and video recordings in preparation for the mastering of a television program, motion picture or web application.	2	S
CO3	The students will be able to learn Intro & Masking Technique, Practicing/Reviewing skills.	2	S
CO4	The students will be able to create the Documentary projects.	3	Ent
CO5	The students will be able to learn Color Editing.	5	None

Course Name **Digital Advancement of Journalism II**
Course Code **JM3401**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should able to understand about how digitalization is taking place in journalism.	2	Emp
CO2	Student should able to analyze difference between online & offline journalism.	2	S
CO3	Student should able to remember about ethics in journalism.	2	S
CO4	Students should able to understand about digital age.	3	Ent
CO5	Student should able to analyze difference between print & online writing& dos &don'ts of online writing& this also allows them to work nationally and globally.	5	None

Course Name **Broadcasting Media (T.V.)**
Course Code **JM3402**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Demonstrate the TV as a medium also understand the basic of Fictional and non-fictional also able to understand the national and international issues in journalistic prospective.	2	Emp
CO2	Create or produce the News package in proper format. Also able to develop the TV program.	2	S
CO3	Create and produce the TV program in various formats. Also able to operate the camera.	2	S
CO4	Execute basic editing and compilation of raw footage. Able to use the editing software.	3	Ent
CO5	Organize the interviews and Talks show. Also able to develop the question for discussion and interviews	5	None

Course Name **Cinematography**
Course Code **JM3403**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will able to understand the language of cinema and the primary knowledge of making sequence for a film.	2	Emp
CO2	Students will able to understand the difference of the various types of the cinema.	2	S
CO3	Students will able to understand the history of early stage cinema in India and the most important changes in Indian cinema and its culture.	2	S
CO4	Students will able to understand the script and screenplay for the film and documentaries.	3	Ent
CO5	Students will able to understand the roles and responsibilities of the cinematographer and its tool and techniques.	5	None

Course Name **Public Relations & Advertisement**
Course Code **JM3404**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Student should able to understand about Public relations and advertisements.	2	Emp
CO2	Student should able to analyze different types of advertisements.	2	S
CO3	Student should able to remember about appeal in advertising.	2	S
CO4	Students should able to understand about digital age.	3	Ent
CO5	Student should able to analyze difference between PR code and PR Campaign.	5	None

Course Name **Art of News Gathering**
Course Code **JM3405**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should able to understand about the concept of news gathering.	2	Emp
CO2	Student should able to analyze different elements of News.	2	S
CO3	Student should able to remember about Familiarization and Difference between News	2	S
CO4	Students should able to understand News Writing.	3	Ent
CO5	Student should able to analyzeNews From Various Contemporary Issue	5	None

Course Name **Event Management**
Course Code **JM3502**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Able to explain all the components and various roles involved in planning, organizing, running and evaluating an event.	2	Emp
CO2	Able to apply the theory and skills necessary to professionally plan,organise and run a business event.	2	S

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CO3	Able to understand the importance of strategic planning for an event or festival, including monitoring and evaluating the impacts on the wider community.	2	S
CO4	Able to execute the event plan on ground level.	3	Ent
CO5	Able to reconcile the mistake in execution of planning.	5	None

Course Name **Television Programming and Production**
Course Code **JM3506**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student should be able to demonstrate the TV as a medium & also understand the basic of Fictional and non fictional.	2	Emp
CO2	Able to create or produce the News package in proper format.	2	S
CO3	Able to create and produce the TV program in various format.	2	S
CO4	Able to execute basic editing and compilation of raw footage.	3	Ent
CO5	Able to produce the news package and other format program.	5	None

Course Name **Media & Audience research**
Course Code **JM3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to impart the definitions and basic concepts of research, communication research, media research & social research.	2	Emp
CO2	Students will able to understand the need, role, importance functions and ethics of research.	2	S
CO3	Students will able to identify research problems & research design for hypotheses development & data collection .	2	S

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CO4	Students will able to understand the sampling process & application of research in mass media.	3	Ent
CO5	Students will able to analyze the importance of content analysis as practical component in media research.	5	None

Course Name **Creative Advertisement**
Course Code **JM3521**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Able to understand the Advertisement and the uses	2	Emp
CO2	Able to understand the uses and impact of advertisement	2	S
CO3	Able to understand the various element of Advertisement	2	S
CO4	Able to think the out of box and process to ideation	3	Ent
CO5	Able to apply the new ideas and creativity in advertisement material	5	None

Course Name **Print Design and Visualisation**
Course Code **JM3522**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Able to understand the structure of news paper.	2	Emp
CO2	Able to understand the page making lay out of the news paper .	2	S
CO3	Able to understand the various types of software for page making.	2	S
CO4	Able to understand the designing tool in software.	3	Ent
CO5	Able to visualize the design and start working on it.	5	None

Course Name **Corporate Crisis & Marketing Communication**
Course Code **JM3522**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Able to understand the uses and process of public relation.	2	Emp
CO2	Able to understand the process of public relation.	2	S
CO3	Able to understand the various tools and their uses in public relation.	2	S
CO4	Able to understand the crisis situation and responsibilities of PRO.	3	Ent
CO5	Able to create and execute the crisis plan.	5	None

Course Name **Beat Reporting**
Course Code **JM3525**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Able to understand the basic of reporting.	2	Emp
CO2	Able to understand the processing of news and various types of beats.	2	S
CO3	Student will able to find out the different sources accordingly they will create their news.	2	S
CO4	Students will able to create the news and find the new angle of news.	3	Ent
CO5	Students will able to analyze the Impact of news on various section of the society.	5	None

Course Name **Fundamentals of Genetics Lab**
Course Code **AG3248**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Students will understand Pre and Post Mendelian Theories	2	Emp
CO2	Students will gain the knowledge about chromosome structure	2	Emp
CO3	Students will get knowledge about different gene interactions	3	Emp
CO4	Students will get knowledge about Qualitative and Quantitative inheritance	3	Emp
CO5	Students will learn about the DNA structure	2	Emp

Course Name **Advertising and PR agency Management & PR Lab**
Course Code **JM3523**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Able to interpret the basics of Advertisement and Publicity and propaganda. Also able to interpret the role and importance of advertisement	2	Emp
CO2	Able to demonstrate the uses of appeals in advertisement	2	S
CO3	Able to develop the Advertisement material in print and TV format. And also able to design the advertisement posters for national and international products.	2	S
CO4	Able to interpret the role and function of Ad agency	3	Ent
CO5	Able to analyze the various situation of advertisement.	5	None

Course Name **Media Convergence & Media Portfolio**
Course Code **JM3526**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Able to understand the new form of media.	2	Emp
CO2	Able to use the various platform and tools of media.	2	S
CO3	Able to create the profile on new platform.	2	S
CO4	Able to use and developed the content for increase the effectiveness.	3	Ent

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CO5	Able to use the various platforms effectively.	5	None

Course Name **Creative Writing**
Course Code **VP3515**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will be able to create and formulate sentence in proper message and facts.	2	Emp
CO2	Student will be able to structure the message in prescribed format.	2	S
CO3	Student will be able to generate and create messages and meaning in attractive and smooth reading format.	2	S
CO4	Student will be able to develop the literature with the proper messages and inherent thoughts.	3	Ent
CO5	Student will be able to weave the literary content.	5	None

Course Name JM3601
Course Code

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will understand the history of internet technology and also online journalism.	2	Emp
CO2	Students will be able to recognize and deploy appropriate online journalism strategies to engage readers across a range of online media.	2	S
CO3	Students will be able to demonstrate advanced skills in the use of industry-standard Digital media tools at the forefront of the field to produce high quality online content for national and international level.	2	S
CO4	Students will understand the process of working with users in bringing ideas from concept to production of content.	3	Ent

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CO5	Students will learn how to draw on a rigorous combination of theory, analysis and hands-on digital work in development of original ideas in digital media on global level.	5	None

Course Name **Advertisement & Design**
Course Code **JM3602**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will able to Interpret the basics of Advertisement and Publicity and propaganda. Also able to interpret the role and importance of advertisement	2	Emp
CO2	Students will able to demonstrate the uses of appeals in advertisement	2	S
CO3	Students will able to develop the Advertisement material in print and TV format. And also able to design the advertisement posters for national and international products.	2	S
CO4	Students will able to Interpret the role and function of Ad agency	3	Ent
CO5	Student will be able to conceptualized and execute his creativity	5	None

Course Name **Writing and Editing Skills**
Course Code **JM3603**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will able to Interpret the basic structure of TV script	2	Emp
CO2	Students will able to demonstrate the editorial topic and develop the content in editorial format	2	S

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CO3	Students will able to execute the edit of unedited script	2	S
CO4	Students will able to interpret the organizational structure of media house	3	Ent
CO5	Students will able to create structure of newspaper.	5	None

Course Name **Digital marketing tools & practices**
Course Code **JM3621**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand how particular digital tools are changing the development of products.	2	Emp
CO2	Students will able to understand, how digital tools allow for a more active role in promotion activities and product distribution.	2	S
CO3	Students will able to understand the design own functional website using add ones.	2	S
CO4	Understand the impacts of digital media and information technologies on communication and marketing.	3	Ent
CO5	Student will able to create email marketing campaign	5	None

Course Name **Introduction to Media Research**
Course Code **JM3622**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will identify and describe the foundations and characteristics of mass media research.	2	Emp
CO2	Students will be able to understand the process of Research and demonstrate familiarity with research into media audiences and users.	2	S
CO3	Students will Generate the research problems and do work on this.	2	S

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CO4	Students will able to increase familiarity with collaborative techniques to develop successful work outcomes.	3	Ent
CO5	Students will apply the research process in National as well as global media related research.	5	None

Course Name **Print Media Production(Lab)**
Course Code **JM3624**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the history of printing press in India	2	Emp
CO2	Understand the modern trend in printing	2	S
CO3	Understand the production of newspaper	2	S
CO4	Analyze the Techniques of photoshop desigining	3	Ent
CO5	Understand the basic of Photoshop	5	None

Course Name **Experimental Printing**
Course Code **VP3614**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the history of printing in India	2	Emp
CO2	Understand the elements and principles of design.	2	S
CO3	Understand & design the layout and composition for graphics	2	S
CO4	Analyze the Techniques of News Editing	3	Ent
CO5	Understand the basic of Photoshop	5	None

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Program Nam **Bachelor of Science in Animation and VFX**

Course Name **English-I**

Course Code **EG3104**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will able to Understand the process of film making and script writing.	2	Emp
CO2	Students will be able to Create the imaginary characters and layout for programs	2	S
CO3	Students will able to Relate with the visual and technical requirements of production	6	S
CO4	Students will able to Understand the process of audio recording and voice over techniques	6	Ent
CO5	Students will able to describe the multiple characters and their description	2	None

Course Name **Foundation Art**

Course Code **AN3105**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will able to Understand the process of film making and script writing.	2	Emp
CO2	Students will be able to Create the imaginary characters and layout for programs	2	S
CO3	Students will able to Relate with the visual and technical requirements of production	6	S
CO4	Students will able to Understand the process of audio recording and voice over techniques	6	Ent
CO5	Students will able to describe the multiple characters and their description	2	None

Course Name **2D Digital Animation**

Course Code **AN3106**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand the language of cinema	2	S
CO2	Students will able to understand the concept of reporting and the beats in reporting; Political, Crime, Sports etc.	2	S
CO3	Students will able to understand the work functions of news room and its operations.	2	S

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CO4	Understand the process of editing in print media; newspapers , magazines etc.	2	Ent
CO5	Understand & Investigate the facts from various sources and able to prepare questions for a specific interview; rewrite news stories from newspapers on national and international issues.	5	Emp

Course Name **2D Digital Animation**
Course Code **AN3106**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand the language of cinema	2	S
CO2	Students will able to understand the concept of reporting and the beats in reporting; Political, Crime, Sports etc.	2	S
CO3	Students will able to understand the work functions of news room and its operations.	2	S
CO4	Understand the process of editing in print media; newspapers , magazines etc.	2	Ent
CO5	Understand & Investigate the facts from various sources and able to prepare questions for a specific interview; rewrite news stories from newspapers on national and international issues.	5	Emp

Course Name **DIGITAL ART**
Course Code **AN3107**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand the language of cinema	2	S
CO2	Students will able to understand the concept of reporting and the beats in reporting; Political, Crime, Sports etc.	2	S
CO3	Students will able to understand the work functions of news room and its operations.	2	S
CO4	Understand the process of editing in print media; newspapers , magazines etc.	2	Ent
CO5	Understand & Investigate the facts from various sources and able to prepare questions for a specific interview; rewrite news stories from newspapers on national and international issues.	5	Emp

Course Name **Project - I**
Course Code **AN3142**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the history of printing in India	2	Emp
CO2	Understand the elements and principles of design.	2	S
CO3	Understand & design the layout and composition for graphics	2	S
CO4	Analyze the Techniques of News Editing	3	Ent
CO5	Understand the basic of Photoshop	5	None

Course Name **Environmental Studies**
Course Code **CY3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to aware with current scenario of society.	2	Emp
CO2	Students will be understand the contemporary issue and able to related the things	2	S
CO3	Students will be able to develop the opinion and create the new thought about it	2	S
CO4	Students will be able to collect lot of information.	3	Ent
CO5	Students will be able to inculcate the new perception about current scenario.	5	None

Course Name **English II**
Course Code **AN3209**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will able to Understand the process of film making and script writing.	2	Emp
CO2	Students will be able to Create the imaginary characters and layout for programs	2	S
CO3	Students will able to Relate with the visual and technical requirements of production	6	S
CO4	Students will able to Understand the process of audio recording and voice over techniques	6	Ent
CO5	Students will able to describe the multiple characters and their description	2	None

Course Name **Story Telling**
Course Code **AN3205**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will able to Understand the process of film making and script writing.	2	Emp
CO2	Students will be able to Create the imaginary characters and layout for programs	2	S
CO3	Students will able to Relate with the visual and technical requirements of production	6	S
CO4	Students will able to Understand the process of audio recording and voice over techniques	6	Ent
CO5	Students will able to describe the multiple characters and their description	2	None

Course Name **3DAssets**
Course Code **AN3206**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will able to Understand the process of film making and script writing.	2	Emp
CO2	Students will be able to Create the imaginary characters and layout for programs	2	S
CO3	Students will able to Relate with the visual and technical requirements of production	6	S
CO4	Students will able to Understand the process of audio recording and voice over techniques	6	Ent
CO5	Students will able to describe the multiple characters and their description	2	None

Course Name **Preproduction**
Course Code **AN3207**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to Implement the basics Drawing.	1	Emp
CO2	Students should be able to describe all types of pencils, life drawing, and environment study.	4	S
CO3	Students must be able to differentiate all different human poses, and drawing lines.	1	Ent
CO4	Students must be able to Describe the rules of animation, warm up exercise, imagination and memory drawing.	2	Ent

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CO5	Students must be able to understand how to operate different traditional techniques of drawing different human anatomy parts.	6	S

Course Name **Disaster Management**
Course Code **CE3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to aware with current scenario of society.	2	Emp
CO2	Students will be understand the contemporary issue and able to related the things	2	S
CO3	Students will be able to develop the opinion and create the new thought about it	2	S
CO4	Students will be able to collect lot of information.	3	Ent
CO5	Students will be able to inculcate the new perception about current scenario.	5	None

Course Name **Project - II**
Course Code **AN3209**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the history of printing in India	2	Emp
CO2	Understand the elements and principles of design.	2	S
CO3	Understand & design the layout and composition for graphics	2	S
CO4	Analyze the Techniques of News Editing	3	Ent
CO5	Understand the basic of Photoshop	5	None

Course Name **History of VFX**
Course Code **AN3302**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the meaning of Digital effects, effects in Animation & VFX.	1	Emp
CO2	Understand the meaning of Digital effects, effects in Animation & VFX.	2	S
CO3	Create the vector art forms, Create different art works in Photoshop. The student will also be able to make a newcomer understand the basics much proficiently.	1	S
CO4	Understand the color theory in Photoshop software.	2	Ent

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CO5	Student should able to understand about the combination of lights and use of diffusers and reflectors	2	Emp

Course Name **Compositing Techniques**
Course Code **AN3303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand user interface of after effect.	2	Emp
CO2	Understand graph editor.	2	S
CO3	Apply Track Matte and remove chroma key.	2	S
CO4	Apply tracking on video footage.	3	Ent
CO5	Create motion graphics projects.	5	Emp

Course Name **3D Dynamics**
Course Code **AN3304**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand fx and simulation principle and use particle system to create simulation.	2	Emp
CO2	Understand nParticles and create fluid	2	S
CO3	Create ocean, pond etc.	2	S
CO4	Apply nHair to objects and simulate nhair.	3	Ent
CO5	Understand rigid body, soft body and create realistic simulation, which allow him to work for animation and visual effects studios, film companies, game design companies globally.	5	None

Course Name **3D Dynamics Lab**
Course Code **AN3304**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand fx and simulation principle and use particle system to create simulation.	2	Emp
CO2	Understand nParticles and create fluid	2	S
CO3	Create ocean, pond etc.	2	S
CO4	Apply nHair to objects and simulate nhair.	3	Ent
CO5	Understand rigid body, soft body and create realistic simulation, which allow him to work for animation and visual effects studios, film companies, game design companies globally.	5	None

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Course Name **Graphic Design**
Course Code **PS3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the language of cinema and the primary knowledge of making	2	Emp
CO2	Understand the sequence for a film	2	S
CO3	Understand the history of early stage cinema in India and the most important changes in Indian cinema and its culture.	2	S
CO4	Write script and screenplay for the film and documentaries.	3	Ent
CO5	Understand the roles and responsibilities of the cinematographer and its tool and techniques.	5	None

Course Name **Lighting & Rendering**
Course Code **AN3305**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should able to memorize about concept of photography and its process, camera parts and features	4	none
CO2	Student should able to understand about the types of camera and lenses and their modes	3	S
CO3	Student should able to memorize about composition and framing of the shot and lighting setup in photography	3	S
CO4	Student should able to understand the basic concept of photo editing and color correction	3	Ent
CO5	Student should able to understand about the combination of lights and use of diffusers and reflectors	3	Emp

Course Name **Project - III**
Course Code **AN3306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should able to memorize about concept of photography and its process, camera parts and features	4	none
CO2	Student should able to understand about the types of camera and lenses and their modes	3	S

CO3	Student should able to memorize about composition and framing of the shot and lighting setup in photography	3	S
CO4	Student should able to understand the basic concept of photo editing and color correction	3	Ent
CO5	Student should able to understand about the combination of lights and use of diffusers and reflectors	3	Emp

Course Name **Character & layout Design Concepts**
Course Code **AN3402**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the language of cinema and the primary knowledge of making	2	Emp
CO2	Understand the sequence for a film	2	S
CO3	Understand the history of early stage cinema in India and the most important changes in Indian cinema and its culture.	2	S
CO4	Write script and screenplay for the film and documentaries.	3	Ent
CO5	Understand the roles and responsibilities of the cinematographer and its tool and techniques.	5	None

Course Name **Rotoscopy & Paint**
Course Code **AN3403**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand fx and simulation principle and use particle system to create simulation.	2	Emp
CO2	Understand nParticles and create fluid	2	S
CO3	Create ocean, pond etc.	2	S
CO4	Apply nHair to objects and simulate nhair.	3	Ent
CO5	Understand rigid body, soft body and create realistic simulation, which allow him to work for animation and visual effects studios, film companies, game design companies globally.	5	None

Course Name **Rotoscopy & Paint Lab**
Course Code **AN3403**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Understand fx and simulation principle and use particle system to create simulation.	2	Emp
CO2	Understand nParticles and create fluid	2	S
CO3	Create ocean, pond etc.	2	S
CO4	Apply nHair to objects and simulate nhair.	3	Ent
CO5	Understand rigid body, soft body and create realistic simulation, which allow him to work for animation and visual effects studios, film companies, game design companies globally.	5	None

Course Name **Advanced Compositing Techniques**
Course Code **AN3404**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the basics of Composite.	2	Emp
CO2	Understand the use of types of key frames and graph editors.	2	S
CO3	Create different text animation.	2	S
CO4	Understand different principles of animation	3	Ent
CO5	Create motion graphics projects.	5	None

Course Name **Advanced Compositing Techniques Lab**
Course Code **AN3404**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the basics of Composite.	2	Emp
CO2	Understand the use of types of key frames and graph editors.	2	S
CO3	Create different text animation.	2	S
CO4	Understand different principles of animation	3	Ent
CO5	Create motion graphics projects.	5	None

Course Name **UX & UI DESIGN**
Course Code

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the classical animation to different poses	2	Emp
CO2	Create the 2d animation drawings with character expressions	2	S
CO3	Understand & apply principles of animation for frame by frame animation.	2	S

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CO4	Understand the animator's drawing tools in Character designing.	3	Ent
CO5	Understand human anatomy study and create different figure drawings.	5	None

Course Name **Match Moving**
Course Code **AN3405**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the history of printing in India	2	Emp
CO2	Understand the elements and principles of design.	2	S
CO3	Understand & design the layout and composition for graphics	2	S
CO4	Analyze the Techniques of News Editing	3	Ent
CO5	Understand the basic of Photoshop	5	None

Course Name **Project – IV**
Course Code **AN3406**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the history of printing in India	2	Emp
CO2	Understand the elements and principles of design.	2	S
CO3	Understand & design the layout and composition for graphics	2	S
CO4	Analyze the Techniques of News Editing	3	Ent
CO5	Understand the basic of Photoshop	5	None

Course Name **Film Appreciation and Analysis**
Course Code **AN3502**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the classical animation to different poses	2	Emp
CO2	Create the 2d animation drawings with character expressions	2	S
CO3	Understand & apply principles of animation for frame by frame animation.	2	S
CO4	Understand the animator's drawing tools in Character designing.	3	Ent

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CO5	Understand human anatomy study and create different figure drawings.	5	None

Course Name **Motion Graphics**
Course Code **AN3503**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand basic of 3d animaiton.	2	Emp
CO2	Understand playback controls in maya.	2	S
CO3	Understand and create graph editor.	2	S
CO4	Create animation Constrains in maya.	3	Ent
CO5	Understand and create animation tools.	5	None

Course Name **Motion Graphics lab**
Course Code **AN3503**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should able to memorize about concept of photography and its process, camera parts and features	4	none
CO2	Student should able to understand about the types of camera and lenses and their modes	3	S
CO3	Student should able to memorize about composition and framing of the shot and lighting setup in photography	3	S
CO4	Student should able to understand the basic concept of photo editing and color correction	3	Ent
CO5	Student should able to understand about the combination of lights and use of diffusers and reflectors	3	Emp

Course Name **Advanced 3D Animation**
Course Code **AN3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand basic of 3d animaiton.	2	Emp
CO2	Understand playback controls in maya.	2	S
CO3	Understand and create graph editor.	2	S
CO4	Create animation Constrains in maya.	3	Ent
CO5	Understand and create animation tools.	5	None

Course Name **Advanced 3D Animation Lab**

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Course Code **AN3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand user interface of after effect.	2	Emp
CO2	Understand graph editor.	2	S
CO3	Apply Track Matte and remove chroma key.	2	S
CO4	Apply tracking on video footage.	3	Ent
CO5	Create motion graphics projects.	5	Emp

Course Name **Advanced Modeling and Texturing**
Course Code **AN3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand 3d views and user interface of maya.	2	Emp
CO2	Create 3d basic objects using NURBS tools.	2	S
CO3	Create 3d basic objects using polygon tools.	2	S
CO4	Understand importance of lighting.	3	S
CO5	Understand basic of texturing.	5	None

Course Name **Advanced Modeling and Texturing Lab**
Course Code **AN3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand 3d views and user interface of maya.	2	Emp
CO2	Create 3d basic objects using NURBS tools.	2	S
CO3	Create 3d basic objects using polygon tools.	2	S
CO4	Understand importance of lighting.	3	S
CO5	Understand basic of texturing.	5	None

Course Name **Advanced Rigging**
Course Code **AN3505**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand Joints, IK/FK, handles/controls, constraints in maya.	2	Emp
CO2	Understand and create Skinning in maya.	2	S
CO3	Create Blend shapes in maya.	2	S
CO4	Undrstand and create Deformers in maya.	3	Ent

CO5	Create a rigging charater in maya.	5	None

Course Name **Advanced Rigging Lab**
Course Code **AN3505**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand fx and simulation principle and use particle system to create simulation.	2	Emp
CO2	Understand nParticles and create fluid	2	S
CO3	Create ocean, pond etc.	2	S
CO4	Apply nHair to objects and simulate nhair.	3	Ent
CO5	Understand rigid body, soft body and create realistic simulation, which allow him to work for animation and visual effects studios, film companies, game design companies globally.	5	None

Course Name **Advanced CG Simulation and Effects**
Course Code **AN3505**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand 3d views and user interface of maya.	2	Emp
CO2	Create 3d basic objects using NURBS tools.	2	S
CO3	Create 3d basic objects using polygon tools.	2	S
CO4	Understand importance of lighting.	3	S
CO5	Understand basic of texturing.	5	None

Course Name **Creative Computing**
Course Code

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the meaning of Digital effects, effects in Animation & VFX.	1	Emp
CO2	Understand the meaning of Digital effects, effects in Animation & VFX.	2	S
CO3	Create the vector art forms, Create different art works in Photoshop. The student will also be able to make a newcomer understand the basics much proficiently.	1	S
CO4	Understand the color theory in Photoshop software.	2	Ent
CO5	Student should able to understand about the combination of lights and use of diffusers and reflectors	2	Emp

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Course Name **Augmented Reality Lab**
Course Code **AN3506**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should able to memorize about concept of photography and its process, camera parts and features	4	none
CO2	Student should able to understand about the types of camera and lenses and their modes	3	S
CO3	Student should able to memorize about composition and framing of the shot and lighting setup in photography	3	S
CO4	Student should able to understand the basic concept of photo editing and color correction	3	Ent
CO5	Student should able to understand about the combination of lights and use of diffusers and reflectors	3	Emp

Course Name **Project - V**
Course Code **AN3507**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should able to memorize about concept of photography and its process, camera parts and features	4	none
CO2	Student should able to understand about the types of camera and lenses and their modes	3	S
CO3	Student should able to memorize about composition and framing of the shot and lighting setup in photography	3	S
CO4	Student should able to understand the basic concept of photo editing and color correction	3	Ent
CO5	Student should able to understand about the combination of lights and use of diffusers and reflectors	3	Emp

Course Name Studio Design & Project Management
Course Code **AN3601**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand the language of cinema	2	S

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CO2	Students will able to understand the concept of reporting and the beats in reporting ; Political, Crime, Sports etc.	2	S
CO3	Students will able to understand the work functions of news room and its operations.	2	S
CO4	Understand the process of editing in print media; newspapers , magazines etc.	2	Ent
CO5	Understand & Investigate the facts from various sources and able to prepare questions for a specific interview; rewrite news stories from newspapers on national and international issues.	5	Emp

Course Name **Matte Painting**
Course Code **AN3602**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand the language of cinema	2	S
CO2	Students will able to understand the concept of reporting and the beats in reporting ; Political, Crime, Sports etc.	2	S
CO3	Students will able to understand the work functions of news room and its operations.	2	S
CO4	Understand the process of editing in print media; newspapers , magazines etc.	2	Ent
CO5	Understand & Investigate the facts from various sources and able to prepare questions for a specific interview; rewrite news stories from newspapers on national and international issues.	5	Emp

Program Nam **Bachelor of Medical Lab Technology**

Course Name **Human Anatomy I**

Course Code **RD3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Terminology, General Planes, Body Cavities and Their Membranes.	1	S
CO2	Students will be able to study about cells, tissue, and the integumentary system of human body.	2	S
CO3	Students will be able to know about Introduction of Musculoskeletal System: Basic anatomy of muscles and bones.	2	S
CO4	Students will be able to study the basic anatomy of respiratory system and its clinical disorders.	2	S
CO5	Students will be able to learn basic anatomy of esophagus, stomach, small & large intestine, liver, Gall bladder, pancreas.	1	S

Course Name **Basics of Human Physiology- I**

Course Code **RD3106**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about basic physiology of cells & tissues and their distribution in human body	1	Emp
CO2	Students should be able to learn about digestive system and their disorders	2	Emp
CO3	Students should be able to learn about circulatory system and its working	2	Emp
CO4	Students should be able to learn about basic physiology of excretory system	2	Emp
CO5	Students should be able to learn about the mechanism of respiratory system in the human	2	Emp

Course Name **Biochemistry**

Course Code **ND3105**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the biological oxidation processes and role of enzymes in metabolism	2	Emp
CO2	Students should be able to learn the various molecular aspects of transport in body.	1	Emp
CO3	Students should be able to learn the structure and metabolism process related to carbohydrates	2	Emp
CO4	Students should be able to learn the structure and metabolism process related to lipids	2	Emp
CO5	Students should be able to learn the structure and metabolism process related to proteins.	2	Emp

Course Name **Basic Hematology & Clinical Pathology- I**
Course Code **BL3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand the formation of blood & its composition	2	Emp
CO2	Students will be able to learn different stage of cells development.	1	Emp
CO3	Students will be able to understand the concept of hemopoiesis, biomedical waste management, & microscopy	2	Emp
CO4	Students will be able to apply the specific technique for sample collection, its preservation & biomedical waste management	3	Emp
CO5	Students will be able to analyze infected blood samples and sites for hematological investigations	4	Emp

Course Name **Fundamentals of Microbiology -I**
Course Code **BL3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be able to understand theories and concepts of microorganisms.	2	Emp
CO2	Students will be able to understand microscope, its components and maintenance.	2	Emp
CO3	Students will be able to learn to describe the morphology of eukaryotic and prokaryotic cells.	1	Emp
CO4	Students will be able to apply microscopy to study basic features of microorganisms	3	Emp
CO5	Students will be able to analyze different stains and staining techniques	4	Emp

Course Name **Preventive Medicine & Community Healthcare-I**

Course Code **BL3103**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students are able to understand the Concept of Community Health, preventive Medicine & Family Welfare.	2	Emp
CO2	Students are able to understand the Nutrition and major Nutritional disorders and their prevention	2	Emp
CO3	Students are able to describe epidemiology and etiology of communicable disease.	1	Emp
CO4	Students are able to apply National health policy programmers, Universal Immunization and Vaccines schedule.	3	Emp
CO5	Students are able to analyze population related problems and its effect on growth and development	4	Emp

Course Name **Environmental Studies**

Course Code **CY3105**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand about issues related to the environment and their impact on human life.	2	S
CO2	Students will be able to understand about the solutions related to the environmental problems.	2	S

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CO3	Students will be able to understand about different components of the environment and their function and sustainable development.	2	S
CO4	Students will be able to comprehend the importance of ecosystem and biodiversity	1	S
CO5	Students will be able to correlate the human population growth and its trend to the environmental degradation.	1	S

Course Name **Human Anatomy- I Lab**
Course Code **RD3140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Major organs through models and permanent slides	1	Emp
CO2	Students will be able to learn about Parts of circulatory system and respiratory system from models.	2	Emp
CO3	Students will be able to learn about Digestive system and excretory system from models	2	Emp

Course Name **Basics of Human Physiology- I Lab**
Course Code **RD3143**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to learn about	2	Emp
CO2	Student should be able to learn about microscopic studies of different types of tissues	2	Emp
CO3	Student should be able to learn about monitoring heart rate, pulse rate, blood pressure, temperature, and BMI.	1	Emp

Course Name **Biochemistry Lab**
Course Code **ND3144**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to learn the preparation methods of starch.	2	Emp
CO2	Students should be able to learn to determine the acid value, iodine value and Saponification value of fats to check their purity.	2	Emp
CO3	Students should be able to learn to estimate the various vitamins and minerals through food sources	2	Emp

Course Name **Basic Hematology and Clinical Pathology-I Lab**
Course Code **BL3140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn Safety rules, glass wares, anticoagulants and Vacutainer.	2	Emp
CO2	Students should be able to apply Blood collection, separate serum & plasma, microscopy & hemoglobin.	3	Emp
CO3	Students should be able to determine TLC, DLC, RBC & platelet count.	2	Emp

Course Name **Fundamentals of Microbiology- I Lab**
Course Code **BL3141**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn general safety in microbiology, glass wares, & microscopy.	2	Emp
CO2	Students should be able to learn to determine the autoclaving, hot air oven & gram staining.	2	Emp
CO3	Students should be able to apply AFB, India ink method & Albert's staining.	3	Emp

Course Name **Human Anatomy- II**
Course Code **RD3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be able to learn the basic anatomy of cardiovascular system and clinical disorders	3	Emp
CO2	Students will be able to study the basic anatomy of brain and spinal cord, meninges, and cerebrospinal fluid.	2	Emp
CO3	Students will be able to know about the Endocrine System: Anatomy of Pituitary, Thyroid, Parathyroid, Pancreas, Adrenal glands.	2	Emp
CO4	Students will be able to study the basic anatomy of special senses.	3	Emp
CO5	Students will be able to study the basic anatomy of Genitourinary organs and reproductive system.	2	Emp

Course Name **Basics of Human Physiology- II**
Course Code **RD3206**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand about the different mechanism of nervous system in human body	3	Emp
CO2	Student should be able to understand about physiology, structure and function of different sense organs.	2	Emp
CO3	Student should be able to understand about hormones and their role in human body.	1	Emp
CO4	Student should be able to understand about various physiologies of male and female reproductive organs.	1	Emp
CO5	Student should be able to understand about the musculoskeletal system of human body.	2	Emp

Course Name **Basic Hematology & Clinical Pathology- II**
Course Code **BL3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand the blood banking techniques & the principle on which these are based.	2	Ent

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CO2	Students will be able to understand of basic mechanism of coagulation &its related disorders.	2	Ent
CO3	Students will be able to describe immune-hematology and blood banking technology.	2	Emp
CO4	Students will be able to apply of technique for routine investigations in clinical hematology laboratory.	3	Emp
CO5	Students will be able to analyze the cause of disease by examining CSF, Sputum, Semen, Stool	4	Emp

Course Name **Fundamentals of Microbiology- II**
Course Code **BL3202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand the concept of infections and its transmission.	2	Emp
CO2	Students will be able to understand the types and properties of disinfectant and sterilization.	2	Emp
CO3	Students will be able to describe Segregation, Treatment, Disposal of biomedical waste.	2	Emp
CO4	Students will be able to apply safety measures used in laboratory.	3	Emp
CO5	Students will be able to analyze specimen collection sites for epidemiological investigations.	4	Emp

Course Name **Fundamentals of Computer Applications**
Course Code **CS3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn the architecture of computer.	1	Emp
CO2	Students will be able to study the arithmetic of computer.	2	Emp
CO3	Students will be able to study the algorithms and flow chart of computer.	3	Emp
CO4	Students will be able to study about disk operating study and its Dos commands.	3	Emp

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CO5	Students will be able to learn about hardware of windows concepts.	2	Emp

Course Name **Human Anatomy-II Lab**
Course Code **RD3240**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Nervous system, bones, and joints from models.	1	Emp
CO2	Students will be able to understand about Structure of eye and ear, various parts of male & female reproductive system from model.	2	Emp
CO3	Students will be able to know about Structural differences between skeletal, smooth, and cardiac muscles.	3	Emp

Course Name **Basics of Human Physiology- II Lab**
Course Code **RD3243**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the microscopic view of various glands & reproductive organs	2	Emp
CO2	Students should be able to learn the various test related to blood like RBC count, WBC count, coagulation time and blood grouping	3	Emp
CO3	Student should be able to learn about estimation of HB level in human body and to study wave pattern of ECG.	1	Emp

Course Name **Basic Hematology & Clinical Pathology- II Lab**
Course Code **BL3240**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn how to perform ESR, PCV & Red Cell Indices.	3	Emp
CO2	Students will be able to perform routine Stool examinations, BT & CT.	2	Emp

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CO3	Students will be able to learn about Blood grouping, Coagulometer, & Cell Counter.	3	Emp

Course Name **Fundamentals of Microbiology- II Lab**
Course Code **BL3241**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn Cleaning of glass wares, LAF & preparation of culture medias.	3	Emp
CO2	Students will be able to learn about Biomedical waste, Hot air oven & Disinfectants.	2	Emp
CO3	Students will be able to learn about Sterilization methods, &Various Microbiology testing's.	3	Emp

Course Name **Fundamentals of Computer Applications -Lab**
Course Code **CS 3141**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Dos Commands Internal - DIR, MD, CD, RD,	1	Emp
CO2	Students will be able to learn about Dos Commands Internal COPY, DEL, REN, CHKDSK, XCOPY, PRINT	2	Emp
CO3	Students will be able to learn about Dos Commands Internal VOL, DATE, TIME, CLS, PATH, TYPE	3	Emp

Course Name **Indian Knowledge System**
Course Code **HU3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will be able to understand the Indian Knowledge System such as historical development, sources and scope.	2	S

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CO2	The students will be able to understand the vocabulary system of Indian knowledge system.	2	S
CO3	The students will be able to understand and apply the philosophical foundations and methods of IKS.	3	N
CO4	The students will be able to execute the case studies based on the Indian knowledge system.	3	N
CO5	The students will be able to understand the influence of Indian Knowledge System on world.	2	S

Course Name **Pathology and Allied Course –I (Hematology & Clinical Pathology)**

Course Code **BL3301**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand about coagulation & Bleeding disorders	2	Emp
CO2	Students will be able to learn different kinds of Anemia's	1	Emp
CO3	Students will be able to understand various Hematological Malignancies	2	Emp
CO4	Students will be able to apply of technique for routine investigations in clinical hematology laboratory.	3	Emp
CO5	Students will be able to describe Blood bank Technology.	2	Emp

Course Name **Clinical Biochemistry –I (Separative and Instrumental Techniques)**

Course Code **BL3302**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will be able to understand about Chromatography & Electrophoresis.	2	Emp
CO2	Student will be able to learn about Photometry Analysis.	1	Emp
CO3	Student will be able to understand about Immuno Assay techniques.	2	Emp
CO4	Student will be able to Learn about Bioanalyzers.	1	Emp

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CO5	Student will be able to understand about Advance Immuno Assay Techniques.	2	Emp

Course Name **Medical Microbiology -I (Bacterial Pathogens & Associated Diseases)**
Course Code **BL3303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand theories and concepts of microorganisms.	2	Emp
CO2	Students will be able to understand microscope, its components and maintenance	2	Emp
CO3	Students will be able to learn to describe the morphology of eukaryotic and prokaryotic cells.	1	Emp
CO4	Students will be able to apply microscopy to study basic features of microorganisms	3	Emp
CO5	Students will be able to analyze different stains and staining techniques	4	Emp

Course Name **Immunology and Serology Techniques-I**
Course Code **BL3304**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand theories and concepts of Immunology Techniques	2	Emp
CO2	Students will be able to understand tissue typing techniques.	2	Emp
CO3	Students will be able to learn various Auto immune Disorders.	1	Emp
CO4	Students will be able to apply Vaccines.	3	Emp
CO5	Students will be able to analyze different types of tumors	4	Emp

Course Name **Pathology & Allied Course-I (Hematology & Clinical Pathology) Lab**
Course Code **BL 3340**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to perform Hb, platelet count & Prothrombin time.	3	Emp
CO2	Students will be able to learn about BT, CT & Blood grouping.	2	Emp
CO3	Students will be able to perform Leishman staining, Microscopy.	3	Emp

Course Name **Clinical Biochemistry –I Lab**
Course Code **BL 3341**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about Qualitative testing's	2	Emp
CO2	Students should be able to learn about Photometry	2	Emp
CO3	Students should be able to Identify Carbohydrates	4	Emp

Course Name **Medical Microbiology I Lab**
Course Code **BL3342**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about LAF, Microscopy & Autoclaving.	2	Emp
CO2	Students should be able to perform sterilization, Culture media.	3	Emp
CO3	Students should be able to perform Staining procedures.	3	Emp

Course Name **Immunology and Serology Techniques-I Lab**
Course Code **BL3343**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to perform HIV Tridot test, RIA, Immunoprecipitation, HBsAg rapid test.	3	Emp
CO2	Students should be able to perform ASO test, ELISA, TB IgG & IgM test, and Dengue IgG & IgM test	3	Emp
CO3	Students should be able to learn Typhi dot test, Allergy panel, &. Mantoux test	2	Emp

Course Name **United Nations Development Programme**
Course Code **HU3202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about the Structure, Mission, Vision and Goals of UNDP	2	S
CO2	Equip the students with the knowledge of sustainable livelihoods for inclusive economic growth.	2	S
CO3	Students will learn and explore about the Human Development index to promote well being at all ages.	2	S
CO4	To impart better education on SDGs goals focusing on Gender Equality and Provide Access to Justice to All and Build Effective.	3	N
CO5	Students will develop knowledge regarding environment sustainability.	3	N

Course Name **Pathology and Allied Course –II (Histopathology and Cytology Techniques)**
Course Code **BL3401**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand about Histology of Specimens.	2	Emp
CO2	Students will be able to learn different Procedures of Tissue Staining.	2	Emp
CO3	Students will be able to understand Histological tissue processing procedures	2	Emp
CO4	Students will be able to understand Microtomes.	2	Emp
CO5	Students will be able to describe Dyes used in Cytology procedures.	3	Emp

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Course Name **Clinical Biochemistry –II (Metabolic and Blood Chemistry)**
Course Code **BL3402**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students may be able to learn about Carbohydrate metabolism.	1	Emp
CO2	Students may be able to learn about Protein metabolism.	1	Emp
CO3	Students may be able to understand about Principle assay procedures of various Biochemistry parameters.	2	Emp
CO4	Students may be able to learn about Advance testing procedures in Metabolic Biochemistry	2	Emp
CO5	Students may be able to learn about HbA1C, LFT.	2	Emp

Course Name **Medical Microbiology II (Technical methods of medical microbiology)**
Course Code **BL3403**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand theories and concepts of microorganisms	2	Emp
CO2	Students will be able to understand microscope, its components and maintenance.	2	Emp
CO3	Students will be able to learn to describe the morphology of eukaryotic and prokaryotic cells.	1	Emp
CO4	Students will be able to apply microscopy to study basic features of microorganisms.	3	Emp
CO5	Students will be able to analyze different stains and staining techniques	4	Emp

Course Name **Immunology and Serology Techniques-II**
Course Code **BL3404**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand Immune system.	2	Emp
CO2	Students will be able to understand Antigens and Antibody	2	Emp
CO3	Students will be able to learn to Body Immune Responses	2	Emp
CO4	Students will be able to apply Laboratory serology tests.	3	Emp
CO5	Students will be able to learn different rheumatological diseases	1	Emp

Course Name **Pathology & Allied Course-II (Histopathology & Cytology Techniques) Lab**
Course Code **BL 3440**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Microtome, Tissue processing & handling of tissue specimens.	2	Emp
CO2	Students will be able to learn about Tissue grossing & embedding.	2	Emp
CO3	Students will be able to perform H&E staining and PAP staining.	3	Emp

Course Name **Clinical Biochemistry –II Lab**
Course Code **BL3441**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to perform Glucose, Uric acid proteins.	3	Emp
CO2	Students should be able to perform urea, Ketone bodies.	3	Emp
CO3	Students should be able to perform Calcium, Serum protein.	3	Emp

Course Name **Medical Microbiology -II Lab**
Course Code **BL3442**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about Hot air oven Microscopy and Autoclaving.	2	Emp
CO2	Students should be able to perform catalase test as well as prepare Blood agar media & Chocolate agar media.	3	Emp
CO3	Students should be able to perform ASO titre and gram staining.	3	Emp

Course Name **Immunology and Serology-II Lab**
Course Code **BL3443**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to perform Gram staining, AFB India Ink & Hanging drop method.	3	Emp
CO2	Students should be able to learn capsule, Bacterial spores & Agglutination reactions.	2	Emp
CO3	Students should be able to perform RA, WIDAL, RPR & CRP tests.	3	Emp

Course Name **Immunohematology & Blood Bank Technology**
Course Code **BL3501**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand Blood bank	2	Emp
CO2	Students will be able to understand Antigens and Antibody	2	Emp
CO3	Students will be able to learn to Body Immune Responses	1	Emp
CO4	Students will be able to apply Laboratory serology tests.	3	Emp
CO5	Students will be able to learn Blood Components.	1	Emp

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Course Name **Clinical Biochemistry –I (Biostatistics, Automation & Endocrinology)**
Course Code **BL3502**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand about biostatistics	2	Emp
CO2	Students will be able to learn quality control	1	Emp
CO3	Students will be able to understand automation in biochemistry.	2	Emp
CO4	Students will be able to apply normal values of various biometabolites	3	Emp
CO5	Students will be able to describe toxicology and endocrinology	2	Emp

Course Name **Medical Microbiology-I(Pathogenic Viruses and Miscellaneous Microbes)**
Course Code **BL3503**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand theories and concepts of microorganisms	2	Emp
CO2	Students will be able to understand microscope, its components and maintenance	2	Emp
CO3	Students will be able to learn to describe the morphology of viruses	1	Emp
CO4	Students will be able to apply microscopy to study basic features of viruses	3	Emp
CO5	Students will be able to identify different viruses.	4	Emp

Course Name **Clinical Biochemistry –II (Diagnostic Enzymology)**
Course Code **BL3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be able to understand about enzyme activities.	2	Emp
CO2	Students will be able to learn different kinds of isoenzymes.	1	Emp
CO3	Students will be able to understand various kinds of Lithiasis.	2	Emp
CO4	Students will be able to apply of technique for gastric analysis.	3	Emp
CO5	Students will be able to describe thyroid function test as well as Infertility profile.	2	Emp

Course Name **Diagnostic Cytology**
Course Code **BL3505**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand about cell.	2	Emp
CO2	Students will be able to learn different kinds of instruments.	1	Emp
CO3	Students will be able to understand various kinds of cytology techniques.	2	Emp
CO4	Students will be able to apply of technique staining's in cytology.	3	Emp
CO5	Students will be able to describe FNAC.	2	Emp

Course Name **Immunohematology & Blood Bank Technology Lab**
Course Code **BL3540**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Equipment's, Cell suspension, & Blood grouping.	2	Emp
CO2	Students will be able to perform Reverse grouping, cross match & Comb's test,	3	Emp
CO3	Students will be able to perform Rh titre, transfusible marker & preparation of various Blood components in Blood bank.	3	Emp

Course Name **Clinical Biochemistry –I(Clinical Enzymology & Automation Lab)**
Course Code **BL3541**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students may be able to perform LFT, Troponin I & Cardiac profile.	3	Emp
CO2	Students may be able to perform KFT, Protein & Glucose	3	Emp
CO3	Students may be able to perform ABG, Calcium & Urea clearance test.	3	Emp

Course Name **Medical Microbiology -I Lab**
Course Code **BL3542**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students may be able to understand about specimen collection, culture media, isolation of pure culture.	2	Emp
CO2	Students may be able to learn about Antibiotic sensitivity test, bacterial cultivation.	1	Emp
CO3	Students may be able to perform Biochemical tests for identification of organisms.	3	Emp

Course Name **Pathology and Allied Course –II (Histopathology & Cytopathology)**
Course Code **BL3601**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand about Histology of Specimens.	2	S
CO2	Students will be able to learn different Procedures of Tissue Staining.	1	S
CO3	Students will be able to understand Histological tissue processing procedures	2	S
CO4	Students will be able to understand Microtomes.	2	S

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CO5	Students will be able to describe Dyes used in Cytology procedures.	3	S

Course Name **Medical Microbiology-II(Applied Microbiology and Advance Techniques)**
Course Code **BL3602**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand theories and concepts of microorganisms.	2	Emp
CO2	Students will be able to understand microscope, its components and maintenance.	2	Emp
CO3	Students will be able to learn to describe the morphology of viruses	1	Emp
CO4	Students will be able to apply microscopy to study basic features of viruses.	3	Emp
CO5	Students will be able to identify different viruses.	4	Emp

Course Name **Clinical Virology**
Course Code **BL3603**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand Viruses	2	Emp
CO2	Students will be able to understand Isolation, cultivation of viruses.	2	Emp
CO3	Students will be able to learn to describe the morphology of viruses	1	Emp
CO4	Students will be able to apply microscopy to study basic features of viruses.	3	Emp
CO5	Students will be able to identify different viruses.	4	Emp

Course Name **Seminars**
Course Code BL3605

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	A student will be able to present seminar under concerned topic in places like conferences, workshops, meets etc.	3	S

Course Name **Pathology & Allied Course-II (Histopathology & Cytopathology) Lab**
Course Code **BL3640**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand Microtomy, handling of tissues specimen and Tissue processing.	2	Emp
CO2	Students will be able to perform tissue grossing & embedding.	3	Emp
CO3	Students will be able to perform H&E staining and PAP staining.	3	S

Course Name **Medical Microbiology- II Lab**
Course Code **BL3641**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to perform staining procedures in microbiology	3	Emp
CO2	Students will be able to perform preparation of Culture media.	3	Emp
CO3	Students will be able to perform Biochemical testing's	3	S

Course Name **Clinical Biochemistry Lab**
Course Code **BL3642**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students may be able to perform Thyroid estimations.	3	Emp
CO2	Students may be able to understand LH, FSH & Prolactin.	2	Emp
CO3	Students may be able to learn about the Triple test & Infertility test.	1	S

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Bachelor of Medical Radiology and

Program Nam **Imaging Technology**

Course Name **Human Anatomy I**

Course Code **RD3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Terminology, General Planes, Body Cavities and Their Membranes.	1	S
CO2	Students will be able to study about cells, tissue, and the integumentary system of human body.	2	S
CO3	Students will be able to know about Introduction of Musculoskeletal System: Basic anatomy of muscles and bones.	2	S
CO4	Students will be able to study the basic anatomy of respiratory system and its clinical disorders.	2	S
CO5	Students will be able to learn basic anatomy of esophagus, stomach, small & large intestine, liver, Gall bladder, pancreas.	1	S

Course Name **Basics of Human Physiology- I**

Course Code **RD3106**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about basic physiology of cells & tissues and their distribution in human body	1	Emp
CO2	Students should be able to learn about digestive system and their disorders	2	Emp
CO3	Students should be able to learn about circulatory system and its working	2	Emp

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CO4	Students should be able to learn about basic physiology of excretory system	2	Emp
CO5	Students should be able to learn about the mechanism of respiratory system in the human	2	Emp

Course Name **Radiation Physics**
Course Code **RD3104**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to study the basic structure of Atom and Radioactivity, laws of radioactivity.	3	Emp
CO2	Students will be able to Learn about electromagnetic radiation.	2	Emp
CO3	Students will be able to study about electricity, magnetism, and electromagnetism.	3	Emp
CO4	Students will be able to Learn about x-ray imaging system and its image quality factors.	3	Emp
CO5	Students will be able to study about x-rays circuits and its components.	3	Emp

Course Name **Environmental Studies**
Course Code **CY3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand about issues related tothe environment and their impact on human life.	3	S
CO2	Students will be able to understand about the solutionsrelated to the environmental problems.	2	S

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CO3	Students will be able to understand about different components of the environment and their function andsustainable development.	3	S
CO4	Students will be able to Comprehend the importance ofecosystem and biodiversity	3	S
CO5	Students will be able to correlate the human populationgrowth and its trend to the environmental degradation	3	S

Course Name **Human Anatomy- I Lab**
Course Code **RD3140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Major organs through models and permanent slides	1	Emp
CO2	Students will be able to study about Parts of Circulatory system from models.	2	Emp
CO3	Students will be able to study about Parts of respiratory system from models.	3	Emp
CO4	Students will be able to learn about Digestive system from models	2	Emp
CO5	Students will be able to learn about Excretory system from models.	3	Emp

Course Name **Basics of Human Physiology- I Lab**
Course Code **RD3143**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be able to learn about measurement of pulse rate, blood pressure &	1	Emp
CO2	Students will be able to learn about Measurement of the Vital capacity & determination of blood Groups	2	Emp
CO3	Students will be able to learn about transport of food through esophagus, Bile juice secretion and excretion & Urine formation and execration	2	Emp
CO4	Students will be able to learn about determination of blood group	1	Emp
CO5	Students will be able to learn about Calculation and evaluation of daily energy and nutrient intake.	3	Emp

Course Name **Biochemistry Lab**
Course Code **ND3144**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Demonstration of Blood Collection & Anticoagulation	1	Emp
CO2	Students will be able to learn about Demonstration of Lab Glassware & Normal solution	2	Emp
CO3	Students will be able to learn about Demonstration of Acids, Alkalis & Acid-Base Indicator	3	Emp
CO4	Students will be able to learn about Kidney function tests, Urea and Creatine values	1	Emp
CO5	Students will be able to learn about Liver function Tests	1	Emp

Course Name **Human Anatomy- II**
Course Code **RD3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn the basic anatomy of cardiovascular system and clinical disorders	3	Emp
CO2	Students will be able to study the basic anatomy of brain and spinal cord, meninges, and cerebrospinal fluid.	2	Emp
CO3	Students will be able to know about the Endocrine System: Anatomy of Pituitary, Thyroid, Parathyroid, Pancreas, Adrenal glands.	2	Emp
CO4	Students will be able to study the basic anatomy of special senses.	3	Emp
CO5	Students will be able to study the basic anatomy of Genitourinary organs and reproductive system.	2	Emp

Course Name **Basics of Human Physiology- II**
Course Code **RD3206**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn the physiology of excretory organs.	3	Emp
CO2	Students will be able to study about muscle nerve physiology and types of muscles.	2	Emp
CO3	Students will be able to know about Introduction of Nervous system i.e.: general organization of CNS and ANS.	1	Emp
CO4	Students will be able to study about endocrine system and its clinical disorders.	1	Emp

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CO5	Students will be able to study about reproductive system and its clinical disorders.	2	Emp

Course Name **Radiographic Positioning- I**
Course Code **RD3203**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn the basic and special projections of cranial and facial bones.	3	Ent
CO2	Students will be able to learn the basic and special radiographic Positioning of neck- AP, LAT with its radiological anatomy.	2	Ent
CO3	Students will be able to learn the basic and special radiographic Positioning of routine thorax- AP, LAT with its radiological anatomy.	1	Emp
CO4	Students will be able to learn the basic and special radiographic positioning of abdomen with its radiological anatomy.	2	Emp
CO5	Students will be able to learn the basic and special radiographic positioning of KUB with its radiological anatomy	1	Emp

Course Name **Fundamentals of Computer Applications**
Course Code **CS3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn the architecture of computer.	1	Emp

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CO2	Students will be able to study the arithmetic of computer.	2	Emp
CO3	Students will be able to study the algorithms and flow chart of computer.	3	Emp
CO4	Students will be able to study about disk operating study and its Dos commands.	3	Emp
CO5	Students will be able to learn about hardware of windows concepts.	2	Emp

Course Name **Human Anatomy-II Lab**
Course Code **RD3240**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Nervous system from models.	1	Emp
CO2	Students will be able to understand about Structure of eye and ear	2	Emp
CO3	Students will be able to know about Structural differences between skeletal, smooth, and cardiac muscles.	3	Emp
CO4	Students will be able to know about Various bones and joints of body	2	Emp
CO5	Students will be able to understand about Various parts of male & female reproductive system from models	1	Emp

Course Name **Radiographic Positioning- I Lab**
Course Code **RD3242**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be able to learn about Cranial bones Basic & special projections and Related radiological Pathology	3	Emp
CO2	Students will be able to learn about facial bones Basic & special projections and Related radiological Pathology	2	Emp
CO3	Students will be able to learn about neck Basic & special projections and Related radiological Pathology	3	Emp
CO4	Students will be able to learn about Thorax Basic & special projections and Related radiological Pathology	1	Emp
CO5	Students will be able to learn about Abdomen Basic & special projection	2	Emp

Course Name **Basics of Human Physiology- II Lab**
Course Code **RD3243**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to perform total platelet count.	2	Emp
CO2	Students will be able to perform bleeding time and clotting time.	3	Emp
CO3	Students will be able to study about CSF examination.	1	Emp
CO4	Students will be able to study about intrauterine contraceptive devices	3	Emp
CO5	Students will be able to demonstrate microscopic structure of bones & muscles with permanent slides.	2	Emp

Course Name **Fundamentals of Microbiology- II Lab**
Course Code **BL3241**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn Cleaning of glass wares, LAF & preparation of culture medias.	3	Emp
CO2	Students will be able to learn about Biomedical waste, Hot air oven & Disinfectants.	2	Emp
CO3	Students will be able to learn about Sterilization methods, &Various Microbiology testing's.	3	Emp

Course Name **Fundamentals of Computer Applications - Lab**
Course Code **CS 3141**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Dos Commands Internal - DIR, MD, CD, RD,	1	Emp
CO2	Students will be able to learn about Dos Commands Internal COPY, DEL, REN, CHKDSK, XCOPY, PRINT	2	Emp
CO3	Students will be able to learn about Dos Commands Internal VOL, DATE, TIME, CLS, PATH, TYPE	3	Emp
CO4	Students will be able to learn about FORMAT, SORT, FDISK	2	Emp
CO5	Students will be able to learn about ATTRIB HELP, SYS	3	Emp

Course Name **Disaster Preparedness & Management**
Course Code **CE3102**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand about issues related to the environment and their impact on human life.	3	S
CO2	Students will be able to understand about the solutions related to the environmental problems.	2	S
CO3	Students will be able to understand about different components of the environment and their function and sustainable development.	3	S
CO4	Students will be able to Comprehend the importance of ecosystem and biodiversity	3	S
CO5	Students will be able to correlate the human population growth and its trend to the environmental degradation	3	S

Course Name **Indian Knowledge System**
Course Code **HU3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will be able to understand the Indian Knowledge System such as historical development, sources and scope.	2	S
CO2	The students will be able to understand the vocabulary system of Indian knowledge system.	2	S
CO3	The students will be able to understand and apply the philosophical foundations and methods of IKS.	3	N

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CO4	The students will be able to execute the case studies based on the Indian knowledge system.	3	N
CO5	The students will be able to understand the influence of Indian Knowledge System on world.	2	S

Course Name **Radiographic Positioning- II**
Course Code **RD3301**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to Learn about patient positioning for Upper and lower Extremities	1	Emp
CO2	Students will be able to Learn about imaging of Shoulder joint	1	Emp
CO3	Students will be able to Know about imaging of Pelvic Girdle and proximal Femur	2	Emp
CO4	Students will be able to Know about Whole Spine Positioning techniques	2	Emp
CO5	Students will be able to learn about Pediatrics radiography	3	Emp

Course Name **Conventional Radiographic Techniques I**
Course Code **RD3302**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to Know about Introduction to Radiologic Imaging	2	Emp

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CO2	Students will be able to Know about X-ray production and its properties	3	Emp
CO3	Students will be able to Know about The Recording System in radiographic imaging	1	Emp
CO4	Students will be able to learn about Processing of Latent image	2	Emp
CO5	Students will be able to learn about Fluoroscopy techniques and IITV	2	Emp

Course Name **Basics of USG and Mammography**
Course Code **RD3303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Basic principle of Ultrasound imaging	2	Emp
CO2	Students will be able to learn about Instrumentation of Ultrasonography	3	Emp
CO3	Students will be able to learn about USG Display modes: A mode, B mode, M mode	2	Emp
CO4	Students will be able to learn about Doppler USG and Mammography techniques	3	Emp
CO5	Students will be able to Know about Clinical Practice of Ultrasonography	2	Emp

Course Name **Special Radiographic Procedure**
Course Code **RD3304**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about special radiographic procedures	2	Emp

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CO2	Students will be able to Know about barium studies	3	Emp
CO3	Students will be able to learn about Routine Special Examinations	2	Emp
CO4	Students will be able to learn about Spine and Hepatobiliary Exams	3	Emp
CO5	Students will be able to learn about Sialography, Dacrocystography, Sinogram, Fistulogram, FNAC, Biopsy	2	Emp

Course Name **Medical Microbiology (Bacterial Pathogens & associated Diseases)**
Course Code **BL3303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand theories and concepts of microorganisms.	1	Emp
CO2	Students will be able to understand microscope, its components and maintenance.	2	Emp
CO3	Students will be able to learn to describe the morphology of eukaryotic and prokaryotic cells.	2	Emp
CO4	Students will be able to apply microscopy to study basic features of microorganisms.	2	Emp
CO5	Students will be able to analyze different stains and staining techniques	1	Emp

Course Name **Special Radiographic Procedure Lab**
Course Code **RD 3341**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be able to perform all special radiographic procedures done with using contrast media.	2	Emp
CO2	Students will be able to learn about Barium procedures with its pros. and cons.	1	Emp
CO3	Students will be able to perform all routine radiographic procedures related to its clinical diagnosis.	2	Emp
CO4	Students will be able to perform all spine and hepatobiliary procedures related to its clinical diagnosis.	3	Emp
CO5	Students will be able to learn about FNAC procedures with its clinical pathology.	2	Emp

Course Name **Radiographic Positioning II Lab**
Course Code **RD 3342**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to perform basic and special projection done for upper and lower extremities.	2	Emp
CO2	Students will be able to perform all projection for shoulder joint related to its radiological pathology.	2	Emp
CO3	Students will be able to perform all projection for pelvis girdle related to its radiological pathology.	3	Emp
CO4	Students will be able to perform basic and special projection done for whole spine positioning.	2	Emp
CO5	Students will be able to perform routine and special projection done in case of pediatric radiography.	1	Emp

Course Name **United Nations Development Programme**
Course Code **HU3202**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about the Structure, Mission, Vision and Goals of UNDP	2	S
CO2	Equip the students with the knowledge of sustainable livelihoods for inclusive economic growth.	2	S
CO3	Students will learn and explore about the Human Development index to promote well being at all ages.	2	S
CO4	To impart better education on SDGs goals focusing on Gender Equality and Provide Access to Justice to All and Build Effective.	3	N
CO5	Students will develop knowledge regarding environment sustainability.	3	N

Course Name **Conventional Radiographic Technique II**
Course Code **RD3401**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Portable & Mobile equipments	2	Emp
CO2	Students will be able to Understand about the Fluoroscopy Equipment	3	Emp
CO3	Students will be able to Understand about General features of fluoroscopic / radiographic table	2	Emp
CO4	Students will be able to Learn about the Principles of tomography	1	Emp
CO5	Students will be able to learn about Equipment for Cranial and Dental radiography	2	Emp

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Course Name **Computed Tomography**
Course Code **RD3402**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Principle of Computed Tomography	1	Emp
CO2	Students will be able to learn about Instrumentation of CT	2	Emp
CO3	Students will be able to learn about CT Image Reconstruction Processes	2	Emp
CO4	Students will be able to learn about CT Artefacts- Classification, Types, Causes, Remedies	1	Emp
CO5	Students will be able to learn about Diagnostic aspects of CT and post Processing Techniques	3	Emp

Course Name **Equipment of Radiotherapy**
Course Code **RD3403**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Introduction to Orthovoltage equipment	1	Emp
CO2	Students will be able to know about principles of Isocentric Tele-isotope machines	3	Emp
CO3	Students will be able to learn about Salient features of components of Linear Accelerator	2	Emp
CO4	Students will be able to learn about Radio-frequency generators like magnetron and klystron	3	Emp

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CO5	Students will be able to learn about Basic principle of remote after-loading system/machines	2	Emp

Course Name **Magnetic Resonance Imaging**
Course Code **RD3404**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Basic Principle of Magnetic Resonance Imaging	1	Emp
CO2	Students will be able to learn about the MRI Hardware	2	Emp
CO3	Students will be able to learn about Pulse sequences used in MRI	3	Emp
CO4	Students will be able to learn about MRI Artifacts	2	Emp
CO5	Students will be able to learn about Flow Phenomena & MRI angiography	1	Emp

Course Name **Orientation in Clinical Sciences**
Course Code **RD3406**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about heart diseases	2	Emp
CO2	Students will be able to know about Intestinal obstruction, Crohn's disease, Ulcerative colitis	2	Emp
CO3	Students will be able to learn about urinary tract diseases	3	Emp

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CO4	Students will be able to learn about Fracture types, Paget's Disease, Bone Tumor-Benign Malignant	2	Emp
CO5	Students will be able to learn about Cholelithiasis, Peritonitis, Appendicitis	3	Emp

Course Name **Computed Tomography Lab**
Course Code **RD 3441**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about patient preparation and positioning done for CT non-contrast procedures.	2	Emp
CO2	Students will be able to learn about patient preparation and positioning done for CT contrast procedures.	1	Emp
CO3	Students will be able to learn about different radiation protection methods in computed tomography.	3	Emp
CO4	Students will be able to know about Various post processing techniques with evaluation of image quality and clinical findings.	2	Emp
CO5	Students will be able to know about pre and post procedural care of patient including contrast media reaction management in CT.	3	Emp

Course Name **Magnetic Resonance Imaging Lab**
Course Code **RD 3442**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be able to learn about patient preparation and positioning done for MRI non- contrast procedures.	1	Emp
CO2	Students will be able to learn about patient preparation and positioning done for MRI contrast procedures	1	Emp
CO3	Students will be able to perform Planning of different scanning planes by using different parameters and tradeoffs in MRI.	2	Emp
CO4	Students will be able to learn various post processing techniques and evaluation of image quality with its clinical findings.	2	Emp
CO5	Students will be able to know about pre and post procedural monitoring of patient including contrast media reaction management in MRI.	3	Emp

Course Name **Nuclear Medicine Technology**
Course Code **RD3501**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Introduction to NMT and Radioactive transformation	2	Emp
CO2	Students will be able to learn about the production of Radionuclides	1	Emp
CO3	Students will be able to know about Radio pharmacy &Handling & Transport of Radionuclides	1	Emp
CO4	Students will be able to study about equipment of NMT	2	Emp
CO5	Students will be able to study about Treatment Planning of NMT procedures.	2	Emp

Course Name **Patient Care and Management**
Course Code **RD3502**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to assess current physical status and obtaining vital signs	1	Emp
CO2	Students will be able to know about the responsibilities of the Imaging Technologist	1	Emp
CO3	Students will be able to learn about handling the emergencies in Radiology	3	Emp
CO4	Students will be able to learn about infection control, Isolation & Sterilization techniques	2	Emp
CO5	Students will be able to learn about Radiation Safety / Protection, Interacting with terminally ill patient.	2	Emp

Course Name **Radiation Protection and Quality Assurance**

Course Code **RD3503**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Introduction to Radiation Protection, Units & Quantities	1	Emp
CO2	Students will be able to study about radiation monitoring & Radiobiology	1	Emp
CO3	Students will be able to know about Quality Control and Assessment in Radiology	2	Emp
CO4	Students will be able to learn about Care and maintenance of diagnostic equipment	3	Emp

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CO5	Students will be able to understand the Role of Radiographer in Planning, QA & in Radiation Protection	2	Emp

Course Name **Interventional Procedure and Technique**
Course Code **RD3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Introduction to Interventional Radiology, Contrast media & Emergency Drugs	1	Emp
CO2	Students will be able to know about Basics of Angiographic equipments	2	Emp
CO3	Students will be able to study the Digital Subtraction Angiography techniques	1	Emp
CO4	Students will be able to know about Sterile Techniques & Radiation protection	3	Emp
CO5	Students will be able to learn about Interventional Procedures	3	Emp

Course Name **Preventive Medicine, Health Care and Radiation Protection**
Course Code **RD3505**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to know about Health, communicable and non-communicable diseases.	1	Emp
CO2	Students will be able to Study about National health policy and programs.	2	Emp

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CO3	Students will be able to study about fertility and population control methods.	3	Emp
CO4	Students will be able to learn the objectives and goals of WHO, UNICEF, Indian Red Cross Society, UNFPA, FAO, ILO.	3	Emp
CO5	Students will be able to learn about radiation protection and personal monitoring devices.	2	Emp

Course Name **Nuclear Medicine Technology Lab**
Course Code **RD 3541**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about patient preparation and positioning done for NMT non- contrast procedures.	3	Emp
CO2	Students will be able to learn about patient preparation and positioning done for NMT contrast procedures	3	Emp
CO3	Students will be able to perform Planning of different scanning planes by using different parameters and tradeoffs in NMT.	2	Emp
CO4	Students will be able to learn various post processing techniques and evaluation of image quality with its clinical findings.	3	Emp
CO5	Students will be able to know about pre and post procedural monitoring of patient in NMT procedures.	2	Emp

Course Name **Clinical Aspects in Radio Imaging**
Course Code **RD3602**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand about Computed Tomography Scanning protocol, Indication, Patient preparation, image quality	2	Emp
CO2	Students will be able to understand about Magnetic Resonance imaging Scanning protocol, Indication, Patient preparation, image quality	1	Emp
CO3	Students will be able to understand about Scanning protocol, Indication, Patient preparation, image quality in Nuclear Medicine	1	Emp
CO4	Students will be able to study about Ultrasonography and Mammography	3	Emp
CO5	Students will be able to learn about Digital Radiography & Interventional Radiology	3	Emp

Course Name **Advances CT, MRI, USG**
Course Code **RD3603**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand about the advanced imaging techniques in CT	2	Emp
CO2	Students will be able to learn about MRI imaging methods	3	Emp
CO3	Students will be able to study about the techniques of sonography-selection	2	Emp

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CO4	Students will be able to understand about CT anatomy and pathology of different organ systems.	1	Emp

Course Name **Seminars**
Course Code **RD3604**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO	Students may be able to understand about specimen collection, culture media, isolation of pure culture.	2	Emp

Course Name **Medical Law and Ethics**
Course Code **RD3605**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be Introduced to medical law and ethics.	3	Emp
CO2	Students will be able to study about Autonomy, informed consent, and rights of patients.	1	Emp
CO3	Students will be able to study about Medico legal aspects of medical records.	2	Emp
CO4	Students will be able to learn about Professional Indemnity insurance policies.	2	Emp
CO5	Students will be able to study about the basics of emergency care and life support skills.	3	Emp

Course Name **Clinical Aspects in Radio Imaging Lab**
Course Code **RD 3641**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to perform all scanning protocols done in computed tomography basedon clinical pathology and exposure.	1	Emp
CO2	Students will be able to perform all scanning protocols done in magnetic resonance imagingbased on clinical pathology and exposure.	2	Emp
CO3	Students will be able to perform all scanning protocols done in nuclear medicine instrumentation based on clinical pathology and exposure.	3	S
CO4	Students will be able to perform all scanning protocols done in ultrasonography and mammography based on clinical pathology and exposure.	2	Emp
CO5	Students will be able to perform all scanning protocols done in digital radiography and interventional procedures based on clinical pathology and exposure.	2	Emp

Course Name **Biostatics & Research Meathodology**
Course Code **RD3616**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Biostatistics – introduction, Role of statistics in health science	1	S
CO2	Students will be able to learn about use of databases and other sources	3	S

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CO3	Students will be able to Understand the research designs used in biostats	2	S
CO4	Students will be able to analyze qualitative and quantitative data types	3	S
CO5	Students will be able to understand the role of evidence-based practice within health and welfare.	3	S

Course Name **Health Psychology**
Course Code **ND 3621**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about need of Health psychology and its various perspectives.	1	S
CO2	Students will be able to learn about stress management and different relaxation techniques.	3	S
CO3	Student will be able to learn about Psychological dimensions and management of chronic illness.	2	S
CO4	Students will be able to learn about creativeness in thinking and problem solving and also learn about decision making strategies.	3	S
CO5	Student will be able to learn about stages of memory, models & theory of information processing and important factors that affects forgetting.	3	S

Course Name **Health Care and Hospital Administration**
Course Code **ND3622**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about hospital management.	1	S
CO2	Students should be able to learn about the concepts of Food & Nutrition.	3	S
CO3	Students should be able to learn about the concepts of modern hospitality management.	2	S
CO4	Students should be able to learn about housekeeping methods in hospitals	3	S
CO5	Students should be able to learn about healthcare and medical tourism.	3	S

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Program Nam **Diploma in Pharmacy**

Course Name **PHARMACEUTICS–THEORY**

Course Code **ER20-11T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Describe about the different dosage forms and their formulation aspects	2	Em,S
CO2	Explaintheadvantages,disadvantagesandqualitycontrol testsofdif ferentdosage forms	2	Em,S
CO3	Discuss the importance quality assurance &good manufacturing practices	1	Em,S

Course Name **PHARMACEUTICS–PRACTICAL**

Course Code **ER 20-11P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Calculate the working formula from the given master formula	2	Em, S
CO2	Formulate the dosage form and dispense inappropriate container	2	Em, S
CO3	Design the label with necessary product and patient information	1	Em,S

Course Name **PHARMACEUTICAL CHEMISTRY–THEORY**

Course Code **ER20-12T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Describe the chemical class, structure and chemical name of the commonly used drugs and pharmaceuticals of both organic and inorganic nature	3	Em,S

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CO2	Discuss the pharmacological uses, dosage regimen, stability issues and storage conditions of all such chemical substances commonly used as drugs	2	Em,S
CO3	Describe the quantitative and qualitative analysis, impurity testing of the chemical substances given in the official monographs	1	Em,S
CO4	Identify the dosage form & the brand names of the drugs and pharmaceuticals popular in the marketplace	2	Em,S

Course Name **PHARMACEUTICAL CHEMISTRY–PRACTICAL**
Course Code **ER20-12P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to perform limit test for quality control in pharmaceuticals.	2	Em,S
CO2	Students should be able to perform assay of inorganic compounds	2	Em,S
CO3	Students should be able to perform the limit tests for iron, sulphur, chlorides, arsenic, and heavy metals in pharmaceutical preparations.	2	Em,S

Course Name **PHARMACOGNOSY–THEORY**
Course Code **ER20-13T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Identify the important/common crude drugs of natural origin	2	Em
CO2	Describe the uses of herbs in nutraceuticals and cosmeceuticals	2	Em
CO3	Discuss the principles of alternative system of medicines	2	Em
CO4	Describe the importance of quality control of drugs of naturalorigin	2	Em

Course Name **PHARMACOGNOSY–PRACTICAL**
Course Code **ER20-13P**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Students should be able to know the fundamental Identify of thegiven crude drugs based on the morphological characteristics, Take a transverse section of the given crudedrugs	2	Em,S
CO2	Students should be able to describe the anatomical characteristics of the given crude drug under microscopical condition .	2	Em,S
CO3	Students should be able to identify the crude drug by. Physical and chemical tests to evaluate the given crude drugs	2	Em,S

Course Name **HUMAN ANATOMY AND PHYSIOLOGY –THEORY**
Course Code **ER 20-14T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Students should be able to know the gross morphology, of various organs of the human body.	2	Em,S
CO2	Students should be able to Identify the various tissues and organs of different systems of human body	2	Em,S
CO3	Students should be able to establish the link between different Courses within the regime.	3	Em,S
CO4	Students should be able to know the structure and functions of various organs of the human body.	2	Em,S

Course Name **HUMAN ANATOMY AND PHYSIOLOGY–PRACTICAL**
Course Code **ER20-14P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)

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CO1	Students should be able to know the gross morphology, of various organs of the human body.	2	Em,S
CO2	Students should be able to Identify the various tissues and organs of different systems of human body	2	Em,S
CO3	Students should be able to establish the link between different Courses within the regime.	2	Em,S

Course Name **SOCIAL PHARMACY–THEORY**
Course Code **ER20-15T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to know roles of pharmacists in the various national health program	2	Em,S
CO2	Students should be able to various sources of health hazards and disease preventive measures	2	Em,S
CO3	Students should be able to establish the health care issues associated with food and nutritional substances	2	Em,S

Course Name **SOCIAL PHARMACY–PRACTICAL**
Course Code **ER 20-15P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to know roles of pharmacists in the various national health program	2	Em,S
CO2	Students should be able to various sources of health hazards and disease preventive measures	2	Em,S
CO3	Students should be able to establish the health care issues associated with food and nutritional substances	2	Em,S

Course Name **PHARMACOLOGY–THEORY**
Course Code **ER20-21T**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Students should have pharmacological knowledge of drugs.	2	Em
CO2	Students should be able to know the mode of action of every drug,	2	Em
CO3	Students should be able to know the toxicology of different drugs	2	Em
CO4	Students should have knowledge of pharmacokinetics and pharmacodynamics of drug.	2	Em
CO5	Students should be able to know the side effect and adverse effect of drug	2	Em

Course Name **PHARMACOLOGY–PRACTICAL**
Course Code **ER 20-21P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Students should be able to know the pharmacokinetic and pharmacodynamic drug actions.	2	Em
CO2	Students should be able to know the developing an insight of pharmacology and toxicology.	2	Em
CO3	Students should be able to know ADR monitering.	2	Em

Course Name **COMMUNITY PHARMACY AND MANAGEMENT–THEORY**
Course Code **ER20-22T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)

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CO1	Students should have knowledge of the establishment ,legal requirements and effective administration of a community pharmacy	2	Em
CO2	Students should be able to know the Professionally handle prescriptions and dispense medications	2	Em
CO3	Students should be able to know the Counsel patients about the disease ,prescription and command on prescription drugs	2	Em
CO4	Students should have knowledge of Perform basic health screening on patient s and interpret the reports in the community pharmacy settings	2	Em

Course Name **COMMUNITY PHARMACY AND MANAGEMENT– PRACTICAL**
Course Code **ER 20-22P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should have knowledge of Handle and fill prescriptions in a professional manner.	2	Em
CO2	Students should be able to know the Professionally handle prescriptions and dispense medications	2	Em
CO3	Students should be able to know the Counsel patients about the disease ,prescription and non-prescription drugs	2	Em
CO4	Students should have knowledge of Perform basic health screening on patient s and interpret the reports in the community pharmacy settings	2	Em

Course Name **BIOCHEMISTRY & CLINICALPATHOLOGY– THEORY**
Course Code **ER20-23T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to know the role of various protein, carbohydrates, co-enzymes and vitamins including normal and abnormal metabolism.	2	Em,S

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CO2	Students should be able to understand the catalytic role of co-enzymes	2	Em,S
CO3	Students should be able to know the importance of enzyme inhibitors in design of new drugs.	2	Em,S
CO4	therapeutic and diagnostic applications of co- enzymes	2	Em,S
CO5	Students should be able to understand the pathology of body fluids and their importance.	2	Em,S

Course Name **BIOCHEMISTRY & CLINICALPATHOLOGY –PRACTICAL**
Course Code **ER20-23P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to clinical diagnosis of diseases.	2	Em,S
CO2	Students should be able to perform the detection test of proteins, amino acids, and lipids in given samples	2	Em,S
CO3	Students should be able to normal range of biochemical values in human body.	2	Em,S

Course Name **PHARMACOTHERAPEUTICS -THEORY**
Course Code **ER 20-24T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to help assessing the Courseive and objective parameters of patients in common disease conditions.	2	Em,S
CO2	Students should be able to understand to Assist the health care provides to analyze drug related problems and provide therapeutic interventions.	2	Em,S
CO3	Students should be Participate in planning the rational medicine therapy for common diseases.	2	Em,S
CO4	Students should be able to understand Design and deliver discharge counseling for patients.	2	Em,S

Course Name **PHARMACOTHERAPEUTICS–PRACTICAL**
Course Code **ER20-24P**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Students should be able to clinical diagnosis of diseases.	2	Em,S
CO2	Students should be able to perform the detection test of proteins, amino acids, and lipids in given samples	2	Em,S
CO3	Students should be able to normal range of biochemical values in human body.	2	Em,S

Course Name **HOSPITAL AND CLINICAL PHARMACY –THEORY**
Course Code **ER20-25**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Students should be able to know the clinical parameters of hospitals	2	Em
CO2	Students should be able to Know about the IPD and OPD of the hospitals.	2	Em
CO3	Students should be able to know the layout and working culture of hospitals	2	Em
CO4	Students should be able to know the function and definition of various items in hospitals	2	Em

Course Name **HOSPITAL AND CLINICAL PHARMACY–PRACTICAL**
Course Code **ER20-25P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurs hip (Emt)/ None (Use , for more than One)
CO1	Students should be able to working in hospital and management of clinical pharmacy.	2	Em
CO2	Students should be able for the preparation and management of infusions.	2	Em

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CO3	Students should be able to know the sterilization and evaluation of surgical dressings and other hospital supplies	2	Em

Course Name **PHARMACY LAW AND ETHICS–THEORY**
Course Code **ER20-26T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to know the rules to run apharmecy collage	2	Em
CO2	Students should be able to know the legislation ofPharmacy Council of India	2	Em
CO3	Students should be able to know the regulation of thepharmacy acts	2	Em
CO4	Students should be able to know the regulation for saleand purchase of the medicine	2	Em
CO5	Students should be able to know the different scheduleof pharmacy acts	2	Em

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Program Nam **Bachelor of Pharmacy**

Course Name **HUMAN ANATOMY AND PHYSIOLOGY-I**

Course Code **BP101T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to explain the gross morphology, structure and function of human body	2	Emp
CO2	Students should be able to understand various homeostatic mechanisms and their imbalance	2	Emp
CO3	Students should be able to learn to identify different organ & tissues of different system of human body	2	Emp
CO4	Students should be able to get the chance to Perform the hematological tests.	3	Emp
CO5	Students should be able to Appreciate coordinated working pattern of different organs of each system.	2	Emp

Course Name **HUMAN ANATOMY AND PHYSIOLOGY**

Course Code **BP107P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to explain the gross morphology, structure and function of human body	2	Emp
CO2	Students will be able to understand various homeostatic mechanisms and their imbalance	2	Emp
CO3	Students will be able to hematological tests like haemoglobin estimation, bleeding/clotting time etc and also record blood pressure.	2	Emp

Course Name **PHARMACEUTICAL ANALYSIS**

Course Code **BP102T**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to know Fundamentals of analytical chemistry.	2	Emp
CO2	Students should be able to Understand the principles of volumetric and electrochemical analysis	2	Emp
CO3	Students should be able to carry out various volumetric and electrochemical titration	2	Emp
CO4	Students should be able to develop analytical procedures.	2	Emp
CO5	Students should be able to know the significance of Analytical Chemistry to Pharmaceutical Sciences	3	Emp

Course Name **PHARMACEUTICAL ANALYSIS**
Course Code **BP108P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to carry out various volumetric and electrochemical titrations	2	Emp
CO2	Students will be able to establish the accuracy in the analytical results.	2	Emp
CO3	Students will be able to constructs the fundamental methodology to prepare different strength of solutions.	2	Emp

Course Name **PHARMACEUTICS- I**
Course Code **BP103T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to learn historical background of profession of pharmacy.	2	S

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CO2	Students should be able to understand the basics of different dosage forms.	3	Emp
CO3	Students will learn the basics of pharmaceutical calculations	2	Emp
CO4	Students will understand the professional way of handling the prescription.	2	Emp
CO5	Students will learn preparation of various conventional dosage forms	2	Emp

Course Name **PHARMACEUTICS**
Course Code **BP109P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the basics of pharmaceutical incompatibilities	2	Emp
CO2	Students will be able to know the basics pharmaceutical calculations.	1	Emp
CO3	Students will be able to preparation of various conventional dosage forms	2	Emp

Course Name **PHARMACEUTICAL INORGANIC CHEMISTRY**
Course Code **BP104T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will know the sources of impurities in inorganic drugs and pharmaceuticals	2	S
CO2	Students will be able to know the methods to determine the impurities in pharmaceuticals	2	S
CO3	Student understand the medicinal and pharmaceutical importance of inorganic compounds	2	S
CO4	Students will be able to understand the monographs of inorganic drugs and pharmaceuticals.	2	S
CO5	Students will be able to understand the various categories of disease.	2	S

Course Name **PHARMACEUTICAL INORGANIC CHEMISTRY**
Course Code **BP110P**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know methods to determine the impurities in inorganic drugs and pharmaceuticals	2	Emp
CO2	Student understand the medicinal and pharmaceutical importance of inorganic compounds	2	Emp
CO3	Students will be able to know the monographs of inorganic drugs and pharmaceuticals.	2	Emp

Course Name **COMMUNICATION SKILLS (Theory)**
Course Code **BP105T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the behavioral needs for a Pharmacist to function effectively in the areas of pharmaceutical operation.	1	S
CO2	Students will be able to communicate effectively (Verbal and Non Verbal)	2	S
CO3	Students will be able to effectively manage the team as a team player	0	S
CO4	Students will have interview skills	1	S

Course Name **COMMUNICATION SKILLS (Practical)**
Course Code **BP111P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to communicate effectively.	1	S
CO2	Students will be able to effectively manage the team as a team player.	1	S
CO3	Students will have interview skills	2	S

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Course Name **REMEDIAL BIOLOGY (Theory)**
Course Code **BP 106RBT**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to identify a given plant part based on its macroscopic and microscopic characteristics	1	Emp
CO2	Students will be able to explain the classification of plants, plant cell and its organelles.	2	Emp
CO3	Students will be able to describe the physiological processes in plants and humans.	1	Emp
CO4	Students will be able to know the anatomy and functions of systems of the human body	2	Emp
CO5	Students will be able to coordinated working pattern of different organs of human body	2	Emp

Course Name **REMEDIAL BIOLOGY (Practical)**
Course Code **BP112RBP**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know the classification and salient features of five kingdoms of life	2	Emp
CO2	Students will be able to understand the basic components of anatomy & physiology of plant	2	Emp
CO3	Students will be able to know understand the basic components of anatomy & physiology of human	1	Emp

Course Name **REMEDIAL MATHEMATICS (Theory)**
Course Code **BP 106 RMT**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know the mathematical theories and their application in Pharmacy	2	Emp
CO2	Students will be able to Solve the different types of problems by applying theories	1	Emp
CO3	Students will be able to Solve the different types of problems by applying theories	2	Emp

Course Name **HUMAN ANATOMY AND PHYSIOLOGY-II (Theory)**
Course Code **BP 201T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to explain the gross morphology, structure and function of human body	2	Emp
CO2	Students will understand various homeostatic mechanisms and their imbalance	2	Emp
CO3	They will learn to identify different organ & tissues of different system of human body	2	Emp
CO4	Students will get the chance to Perform the hematological tests.	2	Emp
CO5	Students will Appreciate coordinated working pattern of different organs of each system.	2	Emp

Course Name **HUMAN ANATOMY AND PHYSIOLOGY (Practical)**
Course Code **BP 207 P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to explain the gross morphology, structure and function of human body	2	Emp

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CO2	Students will understand various homeostatic mechanisms and their imbalance	2	Emp
CO3	Students will be able to identify different organ & tissues of different system of human body	2	Emp
CO4	Students will be able to Perform the hematological tests.	2	Emp
CO5	Students will be able to working pattern of different organs.	3	Emp

PHARMACEUTICAL ORGANIC CHEMISTRY –I

Course Name **(Theory)**

Course Code **BP202T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn write the structure, name and the type of isomerism of the organic compound.	2	Emp
CO2	Students will learn write the reaction, name the reaction and orientation of reactions	2	Emp
CO3	Students will understand the Account for reactivity/stability of compounds,	2	Emp
CO4	students will learn Identify/confirm the identification of organic compound	2	Emp
CO5	Students will able to learn physical and chemical properties of organic compounds	2	Emp

PHARMACEUTICAL ORGANIC CHEMISTRY -I

Course Name **(Practical)**

Course Code **BP208P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn write the structure, name and the type of isomerism of the organic compound.	2	Emp
CO2	Students will learn write the reaction, name the reaction and orientation of reactions	2	Emp
CO3	Stu Students will be able to know the reactivity/stability of compounds,	2	Emp
CO4	students will learn Identify/confirm the identification of organic compound	2	Emp

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CO5	Students will able to learn physical and chemical properties of organic compounds	2	Emp

Course Name **BIOCHEMISTRY (Theory)**
Course Code **BP203 T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the catalytic role of enzymes, importance of enzyme inhibitors in design of new drugs.	2	Emp
CO2	Understand the therapeutic and diagnostic applications of enzymes.	2	Emp
CO3	Remember the metabolism of nutrient molecules in physiological and pathological conditions.	2	Emp
CO4	Remember the genetic organization of mammalian genome and functions of DNA in the synthesis of RNAs and proteins.	2	Emp
CO5	The students will be able to understand the concepts of carbohydrates, lipids, amino acids, nucleotides metabolism.	2	Emp

Course Name **BIOCHEMISTRY (Practical)**
Course Code **BP 209 P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to catalytic role of enzymes, importance of enzyme inhibitors in design of new drugs.	3	Emp
CO2	Students will be able to know the therapeutic and diagnostic applications of enzymes.	2	Emp
CO3	Students will be able to know the nutrient molecules in physiological and pathological conditions.	2	Emp

Course Name **PATHOPHYSIOLOGY (THEORY)**
Course Code **BP 204T**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn basic principles of cell injury and adaptation, basic mechanism involved in the process of inflammation and repair	2	Emp
CO2	Students will be able to learn various diseases and disorders of cardiovascular system, respiratory system and renal system	2	Emp
CO3	Students will be able to learn various haematological diseases and diseases of endocrine system, nervous system and Gastrointestinal system	2	Emp
CO4	Understand the inflammatory bowel diseases, jaundice hepatitis A,B,C,D and Diseases of bones and joints and principle of cancer	2	Emp
CO5	students will be aware and able to learn the various infectious and sexually transmitted diseases	2	Emp

Course Name **COMPUTER APPLICATIONS IN PHARMACY (Theory)**
Course Code **BP205 T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know the various types of application of computers in pharmacy	1	Emp
CO2	Students will be able to know the various types of databases	2	Emp
CO3	Students will be able to know the various applications of databases in pharmacy	2	Emp

Course Name **COMPUTER APPLICATIONS IN PHARMACY (Practical)**
Course Code **BP210P**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the use of computer in Pharmacy	2	Emp
CO2	Students will be able to impart the knowledge of MS office and its functionalities	2	Emp
CO3	Students will be able to extract the information of the drugs	3	Emp
CO4	Students will be able to use HTML pages to use on the site	2	Emp

Course Name **ENVIRONMENTAL SCIENCES (Theory)**
Course Code **BP 206 T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to create the awareness about environmental problems among learners	2	Emp
CO2	Students will be able to impart basic knowledge about the environment and its allied problems	2	Emp
CO3	Students will be able to develop an attitude of concern for the environment	2	Emp
CO4	Students will be able to know in environment protection and its improvement	2	Emp
CO5	Students will be able to know the physical, biological characters of the environment.	2	Emp

Course Name **PHARMACEUTICAL ORGANIC CHEMISTRY –II**
Course Code **BP301T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to write the structure, name and the type of isomerism of the organic compound	2	Emp

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CO2	Students will be able to write the reaction, name the reaction and orientation of reactions	2	Emp
CO3	Students will be able to account for reactivity/stability of compounds,	2	Emp
CO4	Students will be able to prepare organic compounds	2	Emp
CO5	Students will be able to characterize organic compounds	2	Emp

Course Name **PHARMACEUTICAL ORGANIC CHEMISTRY -II (Practical)**
Course Code **BP305P.**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to write the structure, name and the type of isomerism of the organic compound	1	Emp
CO2	Students will be able to write the reaction, name the reaction and orientation of reactions	2	Emp
CO3	Students will be able to account for reactivity/stability of compounds,	2	Emp

Course Name **PHARMACEUTICS-I (Theory)**
Course Code **BP302T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know various physicochemical properties of drug molecules in the designing the dosage forms	2	Emp
CO2	Students will be able to Know the principles of chemical kinetics & to use them for stability testing.	2	Emp
CO3	Students will be able to demonstrate use of physicochemical properties in the formulations.	2	Emp
CO4	Students will be able to determination of expiry date of formulations	2	Emp
CO5	Students will be able to development and evaluation of dosage forms.	2	Emp

Course Name **PHYSICAL PHARMACEUTICS – I (Practical)**

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Course Code BP306P

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to determine the various physicochemical properties of drug molecules.	2	Emp
CO2	Know the principles of chemical kinetics & to use them for stability testing	2	Emp
CO3	Students will be able to determination of expiry date of formulations	2	Emp

Course Name **PHARMACEUTICAL MICROBIOLOGY (Theory)**
Course Code BP 303 T

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand methods of identification, cultivation and preservation of various microorganisms	2	Emp
CO2	To understand the importance and implementation of sterilization in pharmaceutical processing and industry	1	Emp
CO3	Students will be able to learn sterility testing of pharmaceutical products	2	Emp
CO4	Students will be able to carried out microbiological standardization of Pharmaceuticals.	2	Emp
CO5	Students will be able to understand the cell culture technology and its applications in pharmaceutical industries	2	Emp

Course Name **PHARMACEUTICAL MICROBIOLOGY (Practical)**
Course Code BP307 P

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to learn sterility testing of pharmaceutical products	2	Emp
CO2	Students will be able to carried out microbiological standardization of Pharmaceuticals.	2	Emp
CO3	Students will be able to carried out microbiological identification in Pharmaceuticals.	2	Emp

Course Name **PHARMACEUTICAL ENGINEERING (Theory)**
Course Code BP 304 T

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know various unit operations used in Pharmaceutical industries	2	Emp
CO2	Students will be able to understand the material handling techniques	2	Emp
CO3	Students will be able to perform various processes involved in pharmaceutical manufacturing process	2	Emp
CO4	Students will be able to carry out various test to prevent environmental pollution	2	Emp
CO5	Students will be able to appreciate and comprehend significance of plant layout design for optimum use of resources	2	Emp

Course Name **PHARMACEUTICAL ENGINEERING (Practical)**
Course Code BP308P

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Students will be able to know various preventive methods used for corrosion control in Pharmaceutical industries.	2	Emp
CO2	Students will be able to understand the material handling techniques	2	Emp
CO3	Students will be able to carry out various test to prevent environmental pollution	2	Emp

PHARMACEUTICAL ORGANIC CHEMISTRY –III

Course Name **(Theory)**

Course Code BP401T

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the methods of preparation of organic compounds	2	Emp
CO2	Students will be able to explain the stereochemical aspects of organic compounds and stereo chemical reactions	2	Emp
CO3	Students will be able to know the medicinal uses and other applications of organic compounds	2	Emp
CO4	Students will be able to understand the methods of properties of organic compounds	2	Emp
CO5	Students will be able to explain the stereo chemical reactions and test.	3	Emp

Course Name **. MEDICINAL CHEMISTRY – I (Theory)**

Course Code BP402T.

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the chemistry of drugs with respect to their pharmacological activity	2	Emp
CO2	Students will be able to understand the drug metabolic pathways, adverse effect and therapeutic value of drugs	2	Emp
CO3	Students will be able to know the Structural Activity Relationship (SAR) of different class of drugs	2	Emp

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CO4	Students will be able to write the chemical synthesis of some drugs	2	Emp
CO5	Students will be able to SAR of advance Drugs	3	Emp

Course Name **MEDICINAL CHEMISTRY – I (Practical)**
Course Code BP406P

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know understand the chemistry of drugs with respect to their pharmacological activity	2	Emp
CO2	Students will be able to know the Structural Activity Relationship (SAR) of different class of drugs	2	Emp
CO3	Students will be able to know chemical synthesis of some drugs	2	Emp

Course Name **PHYSICAL PHARMACEUTICS-II (Theory)**
Course Code BP 403 T

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to determine the physicochemical properties of API.	2	Emp
CO2	Students will be able to Know the principles of chemical kinetics.	2	Emp
CO3	Students will be able to development and evaluation of dosage forms.	3	Emp
CO4	Students will be able to use them for stability testing and determination of expiry date of formulations	2	Emp
CO5	Students will be able to determination of rate of reaction of formulations degradations.	3	Emp

Course Name PHYSICAL PHARMACEUTICS- II (Practical)
Course Code BP 407P

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand various physicochemical properties of drug molecules in the designing the dosage forms	1	Emp
CO2	Students will be able to Know the for stability testing and determination of expiry date of formulations	2	Emp
CO3	Students will be able to do the formulation development and evaluation of dosage forms.	2	Emp

Course Name **PHARMACOLOGY-I (Theory)**
Course Code BP 404 T

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the pharmacological actions of different categories of drugs	2	Emp
CO2	Students will be able to explain the mechanism of drug action at organ system/sub cellular/ macromolecular levels.	2	Emp
CO3	Students will be able to apply the basic pharmacological knowledge in the prevention and treatment of various diseases	3	Emp
CO4	Students will be able to observe the effect of drugs on animals by simulated experiments	2	Emp
CO5	Students will be able to correlate of pharmacology with other biomedical sciences	3	Emp

Course Name **PHARMACOLOGY-I (Practical)**
Course Code BP 408 P

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the pharmacological actions of different categories of drugs	1	Emp
CO2	Students will be able to explain the mechanism of drug action at organ system/sub cellular/ macromolecular levels.	2	Emp
CO3	Students will be able to observe the effect of drugs on animals by simulated experiments	2	Emp

Course Name PHARMACOGNOSY AND PHYTOCHEMISTRY I (Theory)
Course Code BP 405 T

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know the techniques in the cultivation and production of crude drugs	2	Emp
CO2	Students will be able to know the crude drugs.	2	Emp
CO3	Students will be able to know the evaluation techniques for the herbal drugs	3	Emp
CO4	Students will be able to carry out the microscopic and morphological evaluation of crude drugs	2	Emp
CO5	Students will be able to know the uses and chemical nature of crude drugs.	2	Emp

Course Name **PHARMACOGNOSY AND PHYTOCHEMISTRY I (Practical)**
Course Code BP409 P

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Students will be able to know the techniques in the cultivation and production of crude drugs	2	Emp
CO2	Students will be able to know the crude drugs, their uses and chemical nature	2	Emp
CO3	Students will be able to know the evaluation techniques for the herbal drugs	2	Emp
CO4	Students will be able to carry out the microscopic and morphological evaluation of crude drugs	2	Emp

Course Name MEDICINAL CHEMISTRY – II (Theory)
Course Code BP501T

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to Understand the chemistry of drugs with respect to their pharmacological activity	2	Emp
CO2	Students will be able to Understand the drug metabolic pathways, adverse effect and therapeutic value of drugs	2	Emp
CO3	Students will be able to Know the Structural Activity Relationship of different class of drug	2	Emp
CO4	Students will be able to the chemical synthesis of selected drugs	3	Emp

Course Name **Industrial Pharmacy (Theory)**
Course Code BP 502 T

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to Know the various pharmaceutical dosage forms and their manufacturing techniques	2	Emp
CO2	Students will be able to Know various considerations in development of pharmaceutical dosage forms	2	Emp
CO3	Students will be able to formulate solid, liquid and semisolid dosage forms and evaluate them for their quality	2	Emp

Course Name Industrial Pharmacy (Practical)

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Course Code BP 506 P

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know manufacturing techniques of various Pharmaceutical dosage forms	2	Emp
CO2	Students will be able to development and evaluation of dosage forms.	2	Emp
CO3	Students will be able to Formulate solid, liquid and semisolid dosage forms and evaluate them for their quality	2	Emp

Course Name **PHARMACOLOGY-II (Theory)**
Course Code BP503.T

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the mechanism of drug action and its relevance in the treatment of different diseases	2	Emp
CO2	Students will be able to demonstrate isolation of different organs/tissues from the laboratory animals by simulated experiments	2	Emp
CO3	Students will be able to Demonstrate the various receptor actions using isolated tissue preparation	2	Emp
CO4	Students will be able to appreciate correlation of pharmacology with related medical sciences	1	Emp

Course Name **PHARMACOLOGY-II (Practical)**
Course Code BP 507 P

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Students will be able to Understand the mechanism of drug action and its relevance in the treatment of different diseases	2	Emp
CO2	Demonstrate isolation of different organs/tissues from the laboratory animals by simulated experiments	2	Emp
CO3	Students will be able to Demonstrate the various receptor actions using isolated tissue preparation	2	Emp
CO4	Students will be able to Appreciate correlation of pharmacology with related medical sciences	1	Emp

PHARMACOGNOSY AND PHYTOCHEMISTRY II

Course Name **(Theory)**

Course Code **BP504 T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know the modern extraction techniques, characterization and identification of the herbal drugs and phytoconstituents	2	Emp
CO2	Students will be able to understand the preparation and development of herbal formulation	2	Emp
CO3	Students will be able to understand the herbal drug interactions	2	Emp
CO4	Students will be able to carry out isolation and identification of phytoconstituents	3	Emp

PHARMACOGNOSY AND PHYTOCHEMISTRY II

Course Name **(Practical)**

Course Code **BP 508 P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to know the modern extraction techniques, characterization and identification of the herbal drugs and phytoconstituents	2	Emp

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CO2	Students will be able to understand the preparation and development of herbal formulation	2	Emp
CO3	Students will be able to understand the herbal drug interactions	2	Emp
CO4	Students will be able to carry out isolation and identification of phytoconstituents	3	Emp

Course Name **PHARMACEUTICAL JURISPRUDENCE (Theory)**
Course Code BP 505 T

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to know the rules of run a pharmacy college	2	Emp
CO2	Student should be able to know the legislation of PCI	2	Emp
CO3	Students will be able to know the regulation of pharmacy acts	2	Emp
CO4	Students will be able to know the regulation for the sale and purchase of the medicine	3	Emp

Course Name **MEDICINAL CHEMISTRY – III (Theory)**
Course Code BP601T

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to Understand the importance of drug design and different techniques of drug design	2	Emp
CO2	Students should be able to Understand the chemistry of drugs with respect to their biological activity	2	Emp
CO3	Students should be able to Know the metabolism, adverse effects and therapeutic value of drug	2	Emp
CO4	Students should be able to Know the importance of SAR of drugs	3	Emp

Course Name MEDICINAL CHEMISTRY- III (Practical)
Course Code BP607P

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to Understand the importance of drug design and different techniques of drug design	2	Emp
CO2	Students should be able to Understand the chemistry of drugs with respect to their biological activity	2	Emp
CO3	Students should be able to Know the metabolism, adverse effects and therapeutic value of drug	2	Emp
CO4	Students should be able to Know the importance of SAR of drugs	3	Emp

Course Name **PHARMACOLOGY-III (Theory)**
Course Code BP602 T

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the mechanism of drug action and its relevance in the treatment of different infectious diseases	2	Emp
CO2	Students should be able to comprehend the principles of toxicology and treatment of various poisonings	2	Emp
CO3	Students should be able to appreciate correlation of pharmacology with related medical sciences	2	Emp

Course Name **PHARMACOLOGY-III (Practical)**
Course Code BP 608 P

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Students should be able to understand the mechanism of drug action and its relevance in the treatment of different infectious diseases	2	Emp
CO2	Students should be able to comprehend the principles of toxicology and treatment of various poisonings	2	Emp
CO3	Students should be able to appreciate correlation of pharmacology with related medical sciences	2	Emp

Course Name **HERBAL DRUG TECHNOLOGY (Theory)**
Course Code BP 603 T

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand raw material as source of herbal drugs from cultivation to herbal drug product	2	Emp
CO2	Students should be able to know the WHO and ICH guidelines for evaluation of herbal drugs	2	Emp
CO3	Students should be able to know the herbal cosmetics, natural sweeteners, nutraceuticals	2	Emp

Course Name HERBAL DRUG TECHNOLOGY (Practical)
Course Code BP 609 P

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand raw material as source of herbal drugs from cultivation to herbal drug product	2	Emp
CO2	Students should be able to know the WHO and ICH guidelines for evaluation of herbal drugs	2	Emp
CO3	Students should be able to know the herbal cosmetics, natural sweeteners, nutraceuticals	2	Emp
CO4	Students should be able to appreciate patenting of herbal drugs, GMP	3	Emp

Course Name **BIOPHARMACEUTICS AND PHARMACOKINETICS (Theory)**
Course Code BP 604 T

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to Understand the basic concepts in biopharmaceutics and pharmacokinetics and their significance	2	Emp
CO2	Students should be able to Use of plasma drug concentration-time data to calculate the pharmacokinetic parameters to describe the kinetics of drug absorption, distribution, metabolism, excretion, elimination	2	Emp
CO3	Students should be able to understand the concepts of bioavailability and bioequivalence of drug products and their significance.	3	Emp
CO4	Students should be able to Understand various pharmacokinetic parameters, their significance & applications.	2	Emp

Course Name **PHARMACEUTICAL BIOTECHNOLOGY (Theory)**
Course Code BP 605 T

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to Understand the importance of Immobilized enzymes in Pharmaceutical Industries	2	Emp
CO2	Students should be able to understand the Genetic engineering applications in relation to production of pharmaceuticals	2	Emp
CO3	Students should be able to know the Importance of Monoclonal antibodies in Industries	2	Emp
CO4	Students should be able to appreciate the use of microorganisms in fermentation technology	3	Emp

Course Name **PHARMACEUTICAL QUALITY ASSURANCE (Theory)**
Course Code **BP606T**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand the cGMP aspects in a pharmaceutical industry	2	Emp
CO2	Students should be able to appreciate the importance of documentation	2	Emp
CO3	Students should be able to understand the scope of quality certifications applicable to pharmaceutical industries	2	Emp
CO4	Students should be able to understand the responsibilities of QA & QC departments	3	Emp

Course Name **INSTRUMENTAL METHODS OF ANALYSIS (Theory)**
Course Code **BP701T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the interaction of matter with electromagnetic radiations and its applications in drug analysis	2	Emp
CO2	Understand the chromatographic separation and analysis of drugs.	2	Emp
CO3	Perform quantitative & qualitative analysis of drugs using various analytical instruments.	2	Emp

Course Name **INSTRUMENTAL METHODS OF ANALYSIS (Practical)**
Course Code **BP705P**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the interaction of matter with electromagnetic radiations and its applications in drug analysis	2	Emp

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CO2	Understand the chromatographic separation and analysis of drugs.	2	Emp
CO3	Perform quantitative & qualitative analysis of drugs using various analytical instruments.	2	Emp

Course Name **INDUSTRIAL PHARMACY (Theory)**
Course Code **BP 702 T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Know the process of pilot plant and scale up of pharmaceutical dosage forms	2	Emp
CO2	Understand the process of technology transfer from lab scale to commercial batch	2	Emp
CO3	Know different Laws and Acts that regulate pharmaceutical industry	2	Emp
CO4	Understand the approval process and regulatory requirements for drug products	1	Emp

Course Name **PHARMACY PRACTICE (Theory)**
Course Code **BP 703T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Interpret selected laboratory results (as monitoring parameters in therapeutics) of specific disease states	2	Emp
CO2	Know various drug distribution methods in a hospital	2	Emp
CO3	Appreciate the pharmacy stores management and inventory control	3	Emp
CO4	Monitor drug therapy of patient through medication chart review and clinical review	2	Emp
CO5	Obtain medication history interview and counsel the patients	2	Emp

Course Name **NOVEL DRUG DELIVERY SYSTEMS (Theory)**
Course Code **BP 704T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	To understand various approaches for development of novel drug delivery systems.	2	Emp
CO2	To understand the criteria for selection of drugs and polymers for the development of Novel drug delivery systems, their formulation and evaluation	2	Emp
CO3	Appreciate the pharmacy stores management and inventory control	3	Emp

BIOSTATISTICS AND RESEARCH METHODOLOGY

Course Name **(Theory)**

Course Code **BP801T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Know the operation of M.S. Excel, SPSS, R and MINITAB, Design of Experiment	2	Emp
CO2	Know the various statistical techniques to solve statistical problems	2	Emp
CO3	Appreciate statistical techniques in solving the problems	2	Emp

Course Name **SOCIAL AND PREVENTIVE PHARMACY**

Course Code **BP 802T**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide.	2	Emp
CO2	Have a critical way of thinking based on current healthcare development.	2	Emp

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CO3	Evaluate alternative ways of solving problems related to health and pharmaceutical issues	2	Emp

Course Name **PHARMA MARKETING MANAGEMENT (Theory)**
Course Code **BP803ET**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The course aims to provide an understanding of marketing concepts and techniques and their applications in the pharmaceutical industry	1	Emp

Course Name **PHARMACEUTICAL REGULATORY SCIENCE (Theory)**
Course Code BP804 ET

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Know about the process of drug discovery and development	1	Emp
CO2	Know the regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals	2	Emp
CO3	Know the regulatory approval process and their registration in Indian and international markets	1	Emp

Course Name **PHARMACOVIGILANCE (Theory)**
Course Code **BP 805ET**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	National and international scenario of pharmacovigilance	1	Emp
CO2	Dictionaries, coding and terminologies used in pharmacovigilance	3	Emp

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CO3	Detection of new adverse drug reactions and their assessment	2	Emp
CO4	International standards for classification of diseases and drugs	1	Emp
CO5	Adverse drug reaction reporting systems and communication in pharmacovigilance	2	Emp
CO6	ICH guidelines for ICSR, PSUR, expedited reporting, pharmacovigilance planning.	2	Emp

Course Name **QUALITY CONTROL AND STANDARDIZATION OF HERBALS**
Course Code **BP 806 ET**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Know WHO guidelines for quality control of herbal drugs	2	Emp
CO2	Know Quality assurance in herbal drug industry	2	Emp
CO3	Know the regulatory approval process and their registration in Indian and international markets	2	Emp
CO4	Appreciate EU and ICH guidelines for quality control of herbal drugs	3	Emp

Course Name **COMPUTER AIDED DRUG DESIGN (Theory)**
Course Code **BP 807 ET**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Design and discovery of lead molecules	2	Emp
CO2	The role of drug design in drug discovery process	2	Emp
CO3	The concept of QSAR and docking	2	Emp
CO4	Various strategies to develop new drug like molecules.	3	Emp
CO5	The design of new drug molecules using molecular modeling software	1	Emp

Course Name **CELL AND MOLECULAR BIOLOGY (Elective Course)**
Course Code **BP808ET**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Summarize cell and molecular biology history.	1	Emp
CO2	Summarize cellular functioning and composition.	2	Emp
CO3	Describe the chemical foundations of cell biology.	1	Emp
CO4	Summarize the DNA properties of cell biology.	2	Emp
CO5	Describe protein structure and function.	2	Emp

Course Name **COSMETIC SCIENCE**
Course Code **BP809ET**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Knowledge about cosmetic preparation	2	Emp
CO2	Standard procedure for the preparation of cosmetics	2	Emp

Course Name **PHARMACOLOGICAL SCREENING METHODS**
Course Code **BP810 ET**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Appreciate the applications of various commonly used laboratory animals.	2	Emp
CO2	Appreciate and demonstrate the various screening methods used in preclinical research	2	Emp
CO3	Appreciate and demonstrate the importance of biostatistics and research methodology	3	Emp
CO4	Design and execute a research hypothesis independently	2	Emp
CO5	Appreciate the applications of various commonly used laboratory animals.	3	Emp

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Course Name **ADVANCED INSTRUMENTATION TECHNIQUES**
Course Code **BP 811 ET**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the advanced instruments used and its applications in drug analysis	2	Emp
CO2	Understand the chromatographic separation and analysis of drugs.	2	Emp
CO3	Understand the calibration of various analytical instruments	3	Emp
CO4	Know analysis of drugs using various analytical instruments.	2	Emp
CO5	Understand the advanced instruments used and its applications in drug analysis	3	Emp

Course Name **DIETARY SUPPLEMENTS AND NUTRACEUTICALS**
Course Code **BP 812 ET**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the need of supplements by the different group of people to maintain healthy life.	1	Emp
CO2	Understand the outcome of deficiencies in dietary supplements.	2	Emp
CO3	Appreciate the components in dietary supplements and the application.	1	Emp
CO4	Appreciate the regulatory and commercial aspects of dietary supplements including health claims.	2	Emp
CO5	Understand the need of supplements by the different group of people to maintain healthy life.	2	Emp

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Bachelor of Science in Nutrition and

Program Nam **Dietetics**

Course Name Basics of Human Physiology-I

Course Code RD3106

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about basic physiology of cells & tissues and their distribution in human body	2	Emp,S
CO2	students should be able to learn about digestive system and their disorders	2	Emp,S
CO3	students should be able to learn about circulatory system and its working	1	Emp,S
CO4	students should be able to learn about basic physiology of excretory system	2	Emp,S
CO5	students should be able to learn about the mechanism of respiratory system in the human body	2	Emp,S

Course Name **Fundamentals of Foods & Nutrition- I**

Course Code **ND3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than
CO1	Students should be able to apply fundamental knowledge related to nutrition and RDA's	2	Emp,S
CO2	Students should be able to understand the functions and role of carbohydrates, their requirements and the effect of deficiency and excess	2	Emp,
CO3	Students should be able to understand the functions and role of proteins, their requirements and the effect of deficiency and excess	2	Emp,
CO4	Students should be able to understand the functions and role of lipids, their requirements and the effect of deficiency and excess	1	Emp,

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CO5	Students should be able to analyze the role of various minerals and vitamins important in maintaining health.	2	Emp,

Course Name **Basics of Human Physiology I Lab**
Course Code **RD3143**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than
CO1	Students should be able to learn about microscopic studies of different human body systems.	2	Emp
CO2	Students should be able to learn about microscopic studies of different types of tissues.	2	S
CO3	Students should be able to learn about estimation of HB level in the human body.	1	S

Course Name **Biochemistry**
Course Code **ND 3105**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the fundamentals of clinical biochemistry	2	Emp,
CO2	Students should be able to learn the various molecular aspects like, solution, acid, base, pH etc.	2	Emp,
CO3	Students should be able to learn the structure and functions related to carbohydrates, lipids and enzymes.	2	Emp,
CO4	Students should be able to learn the structure and functions of different nucleic acids.	2	Emp,
CO5	Students should be able to learn the role of different vitamins.	1	Emp,

Course Name **Food, Hygiene and Sanitation**
Course Code **ND 3104**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about the basic concept of health and health problems of developed and developing countries.	2	S
CO2	Students will learn about importance of water and various methods of cleaning for utensils and equipment's.	1	Emp,
CO3	Students should be able to learn about various types of diseases and their modes of spread.	2	S
CO4	Students should be able to learn about food spoilage, food poisoning and different types of toxins	2	S
CO5	Students should be able to learn about various national immunization programs and vaccine schedules. Students also learn about family welfare and planning.	2	S, Ent

Course Name **Fundamentals of Foods & Nutrition- I Lab**
Course Code **ND3141**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to estimate the calorific value, ash value and moisture content of food.	2	Emp,S
CO2	Students should be able to prepare the buffers and determine their pH value	2	S
CO3	Students should be able to identify carbohydrates, lipids, proteins and minerals quantitatively.	1	S

Course Name **Environmental Studies**
Course Code **CY3205**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the issues related to the environment and their impact on human life.	2	Emp, S
CO2	Students should be able to understand on the solutions related to the environmental problems.	2	S
CO3	Students should be able to understand different components of the environment and their function and sustainable development.	2	S
CO4	Students should be able to comprehend the importance of ecosystem and biodiversity	2	Emp, S
CO5	Students should be able to correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and prevention	2	Emp, S

Course Name **Biochemistry Lab**
Course Code **ND3144**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the formation of different types of solutions	3	S, Emp
CO2	Students should be able to determine the acid value, iodine value and saponification value of fats to check their purity.	3	S, Emp
CO3	Students should be able to identify the various types of sugars.	3	S, Emp

Course Name **Basics of Physiology-II**
Course Code **RD3206**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand about the different mechanism of nervous system in human body	3	Emp,S
CO2	Student should be able to understand about physiology, structure and function of different sense organs.	2	Emp,S
CO3	Student should be able to understand about hormones and their role in human body.	3	Emp,S
CO4	Students should be able to understand about various physiology of male and female reproductive organs.	2	Emp,S
CO5	Students should be able to understand about the skeletal system of human body.	3	Emp,S

Course Name **Basics of Human Physiology-II Lab**
Course Code **RD3243**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the microscopic view of various glands & reproductive organs.	2	S
CO2	Students should be able to learn the various test related to blood like RBC count, WBC count, coagulation time and blood grouping	4	Emp,S
CO3	Students should be able to learn to estimate blood pressure using sphygmomanometer and changes in pulse rate on exercise.	3	Emp,S

Course Name **Nutrition Through Life Cycle**
Course Code **ND3203**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to understand about the basic steps of meal planning for different age groups with specific requirements.	2	Emp,S
CO2	Student should be able to understand about nutritional requirements during pregnancy, lactation and different stages of pregnancy.	2	Emp,S
CO3	Student should be able to understand about feeding patterns, nutritional related problems during and nutritional requirements during infancy and early childhood.	2	Emp,S
CO4	Students should be able to understand about importance of lunch and snacks for school going children	2	Emp,S
CO5	Students should be able to understand about care process of elderly people (geriatric nutrition)	2	S

Course Name **Nutritional Biochemistry**
Course Code **ND3206**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about the distribution of fluids in the body, along with their water metabolism, regulation and biomedical significance of water.	2	Emp, S
CO2	Students should be able to learn about metabolic role of carbohydrates	3	Emp, S
CO3	Students should be able to learn about the metabolic role of lipids	3	Emp, S
CO4	Students should be able to learn about the metabolic role of proteins	2	Emp, S

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CO5	Students should be able to acquire knowledge about the biological oxidation.	2	Emp, S

Course Name **Fundamentals of Foods & Nutrition II**
Course Code **ND3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about the importance and functions of macronutrients and micronutrients along with their deficiencies.	6	Emp,S
CO2	Students should be able to learn about classification, importance and food sources for various fat soluble and water-soluble vitamins.	6	S.Emp, Ent
CO3	Students should learn about food hygiene and sanitation. Various methods to control and prevent food from toxicants.	6	Emp,S, Ent
CO4	Students should learn about importance of macro-nutrients and micronutrients in sports.	5	Emp
CO5	Students should be able to learn about energy generating pathways along with BMR affecting factors.	5	Emp

Course Name **Disaster Preparedness and Management**
Course Code **CE3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the basic concepts of disasters and its relationships with development.	2	Em
CO2	Understand the approaches of Disaster Risk Reduction (DRR) and the relationship between vulnerability, disasters, disaster prevention and risk reduction.	2	S
CO3	Understand the Medical and Psycho-Social Response to Disasters.	2	Em

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CO4	Prevent and control Public Health consequences of Disasters.	2	Em
CO5	Awareness of Disaster Risk Management institutional processes in India.	2	Em

Course Name **Nutrition Through Life Cycle Lab**
Course Code **ND3242**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the planning of various diets according to the age, sex and RDA's	6	Emp,S
CO2	Students should be able to learn the preparation and calculation of various diets plans.	6	S, Emp, Ent
CO3	Students should be able to learn the planning and preparation of weaning foods for infants and packed foods for school going children	6	Emp, S, Ent

Course Name **Nutritional Biochemistry Lab**
Course Code **ND3245**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about extraction of casein and calcium from milk sample.	3	Emp, S
CO2	Students should be able to learn about qualitative estimation of macromolecules such as proteins, fats and carbohydrates etc.	3	S
CO3	Students should be able to learn about estimation of ascorbic acid from citrus fruits.	3	Emp, S

Course Name **Indian Knowledge System**
Course Code **HU3201**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will be able to understand the Indian Knowledge System such as historical development, sources and scope.	2	S
CO2	The students will be able to understand the vocabulary system of Indian knowledge system.	2	S
CO3	The students will be able to understand and apply the philosophical foundations and methods of IKS.	3	N
CO4	The students will be able to execute the case studies based on the Indian knowledge system.	3	N
CO5	The students will be able to understand the influence of Indian Knowledge System on world.	2	S

Course Name **Fundamental of Foods and Nutrition Lab II**
Course Code **ND3244**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should able to learn about rich sources nutrients price list, nutrition and labelling.	6	Emp,S
CO2	Students should be able to learn about use and care of kitchen equipment's.	6	S.Emp, Ent
CO3	Students should able to prepare recipes as good, moderate and poor along with sources of specific nutrients.	6	Emp,S, Ent

Course Name **Basic Dietetics- I**
Course Code **ND3301**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about the different tools, skills, ethics, and responsibilities of a dietitian as well as their work in different areas.	2	S
CO2	Students should be able to learn about Nutrition care process and its importance in medical nutrition therapy.	2	Emp
CO3	Students should be able to learn about different types of hospital diet and which type of diet in given to which patients.	2	Emp
CO4	Students should be able to learn about infections and its effects on the nutritional status of the body as well as about its nutritional intervention.	3	S
CO5	Students should be able to learn about various symptoms of gastrointestinal problems and how to management them with dietary modification	3	Emp

Course Name **Food Science**
Course Code **ND3305**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about the nutritional importance of cereals, also learn about various new technologies of baking used in cereal products making.	3	Emp, S
CO2	Students should be able to learn about the nutritional importance of legumes and various technologies used in processing legumes	3	Emp, S
CO3	Students should be able to learn about the nutritional importance of milk and milk products and various new technologies used in processing of milk and milk products.	2	Emp, S

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CO4	Students should be able to learn about classification and new technologies of fruits & vegetables and their products	3	Emp, S
CO5	Students should be able to learn about various processing & preservation techniques of food.	3	Emp, S

Course Name **Food Science Lab**
Course Code **ND3341**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to learn about various cooking methods.	3	Emp, S
CO2	Student should be able to learn about physical & chemical properties of different food grains.	3	Emp, S
CO3	Student should be able to learn about processing & preservation techniques for different food products.	3	Emp, S, Ent

Course Name **Food Microbiology I**
Course Code **ND3303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about the history and thegeneral characteristics of different classes of microorganisms. Beside the students will learn about the significance of microorganisms in food.	2	S
CO2	Students should be able to acquire knowledge about the growth curve of microorganisms even with the external and internal factors that affect the growth rate of microorganisms.	2	S
CO3	Students should be able to learn about the spoilage, contamination and prevention of cereals and cereals products.	2	Emp
CO4	Students should be able to learn about the spoilage, contamination and prevention of fruits & vegetables along with canned foods.	2	Emp

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CO5	Students should be able to clear the concept about the environmental microbiology by studying the factors of environments such as air, water, soil and sewage.	2	Emp

Course Name **Food Microbiology Lab I**
Course Code **ND3342**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn various equipment used in food microbiology lab etc.	3	S
CO2	Students should be able to learn about staining techniques for bacteria such as gram staining etc.	4	Emp
CO3	Students should be able to also learn about Cultivation and identification of important bacteria, mouldsetc	5	Emp

Course Name **Food Service Management I**
Course Code **ND3304**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about the functions and classification of catering industry and various processing method which is used in catering industry	2	S
CO2	Students should be able to learn about the various types of floor planning and layouts for a good catering establishments and characteristics of typical food service facilities	3	S
CO3	Students should be able to learn about the catering equipment's and factors which involved in the selection and purchasing of equipment's.	3	Emp

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CO4	Students should be able to learn about the principles of food preparation, food purchasing and how to store food for long time.	3	Emp
CO5	Students should be able to learn about the principles and objectives of menu planning which is very useful for any catering establishment.	4	Emp

Course Name **Food Service Management Lab I**
Course Code **ND3343**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about the standardization techniques for different recipes.	5	S
CO2	Student should be able to gain knowledge about cost calculation for different standardized recipes.	3	S
CO3	Student should be able to gain knowledge about management techniques for catering establishment.	3	Emp

Course Name **United Nations Development Programme**
Course Code **HU3202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about the Structure, Mission, Vision and Goals of UNDP	2	S
CO2	Equip the students with the knowledge of sustainable livelihoods for inclusive economic growth.	2	S
CO3	Students will learn and explore about the Human Development index to promote well being at all ages.	2	S
CO4	To impart better education on SDGs goals focusing on Gender Equality and Provide Access to Justice to All and Build Effective.	3	N

CO5	Students will develop knowledge regarding environment sustainability.	3	N

Course Name **Basic Dietetics Lab I**
Course Code **ND3340**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn to plan various types of therapeutic diets used in hospitals.	6	Emp
CO2	Students should be able to learn to plan and prepare therapeutic diets for various basic diseases like Diarrhoea, constipation, peptic Ulcers and different types of Fevers.	6	Emp
CO3	Students should be able to learn to calculate RDA,s according to individual patients for various basic diseases like Diarrhoea, constipation, peptic Ulcers and different types of Fevers	3	Emp

Course Name **Basic Dietetics II**
Course Code **ND3401**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about different food allergens, how they cause allergy to sensitive people and their treatment.	2	Emp, S, Ent
CO2	Students should be able to learn about different types of renal disease and how we can prevent it by dietary intervention.	2	S, Emp, Ent
CO3	Students should be able to learn about different about different types of cardiovascular disease and how it can be prevented by dietary intervention	3	Emp, S, Ent

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CO4	Students should be able to learn about different types of diabetes mellitus and its dietary intervention.	2	Emp, S, Ent
CO5	Students should be able to learn about different types of weight management diseases and how it can be prevented by dietary and lifestyle modification	2	Emp, S, Ent

Course Name **Basic Dietetics Lab II**
Course Code **ND3440**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to plan therapeutic diets for various basic diseases like Allergy, Diabetes, Renal Disease, CHD, Weight management	6	Emp, S, Ent
CO2	Students should be able to prepare therapeutic diets for various basic diseases like Allergy, Diabetes, Renal Disease, CHD, Weight management	6	S,Emp, Ent
CO3	Students should be able to calculate RDA,s according to individual patients for various basic diseases like Allergy, Diabetes, Renal Disease, CHD, Weight management	3	Emp, Ent,S

Course Name **Food Science I**
Course Code **ND3405**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about the nutritional importance of cereals, also learn about various new technologies of baking used in cereal products making	2	S

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CO2	Students should be able to learn about the nutritional importance of legumes and various technologies used in processing legumes	2	S
CO3	Students should be able to learn about the nutritional importance of milk and milk products and various new technologies used in processing of milk and milk products	2	Emp
CO4	Students should be able to learn about classification and new technologies of fruits & vegetables and their products	2	Emp
CO5	tudents should be able to learn about various processing & preservation techniques of food.	2	Emp

Course Name **Food Science I Lab**
Course Code **ND3444**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to learn about various cooking methods.	2	Emp, S, Ent
CO2	Student should be able to learn about physical & chemical properties of different food grains.	2	Emp, S, Ent
CO3	Student should be able to learn about processing & preservation techniques for different food products.	2	Emp, S, Ent

Course Name **Food Service Management II Lab**
Course Code **ND3442**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about the standardization techniques for different types of recipes at different occasions and to have inhouse training of quantity cooking.	6	Emp, S, Ent

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CO2	Student should be able to gain knowledge about financial management for any catering establishment.	3	Emp, S, Ent
CO3	Students should be able to learn catering management in different establishments through visits.	3	Emp, S, Ent

Course Name **Food Service Management II**
Course Code **ND3403**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about the management, principles of management and various techniques of effective management.	2	Emp, S, Ent
CO2	Students should be able to learn about the tools of management, work improvement, work simplification and various food cost control methods.	2	Emp, S, Ent
CO3	Students should be able to learn about financial management (costing, budgeting and accounting) and various food cost control methods.	2	Emp,S, Ent
CO4	Students should be able to learn about personnel management (staff employment, supervision, employee benefits and various method of selection).	2	Emp, S, Ent
CO5	Students should be able to learn about standardization of recipe and different format of standard recipe.	2	Emp, S, Ent

Course Name **Food Microbiology II**
Course Code **ND3404**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students should be able to acquire knowledge about waste product handling by primary and secondary treatments even by biological treatments. Different types of food waste.	2	S
CO2	Students should be able to learn about various mycotoxins produced by different microorganisms, sources of infection, symptom and method of control.	4	S, Emp
CO3	Students should be able to learn about beneficial products made by microorganisms such as bread, alcoholic beverages, vinegar, pickled products etc.	2	Emp, S, Ent
CO4	Students should be able to learn about microbial growth curve and various microbial metabolites produced during growth pattern such as alcoholic beverages, bread and dairy products.	2	S
CO5	Students should be able to learn the various relevance of microbial standards for food safety such as Food agricultural organization(FAO), World health organization(WHO), The international commission on microbiological specifications for foods (ICMSF), etc.	2	Ent, Emp, S

Course Name **Food Microbiology II Lab**
Course Code **ND3443**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to prepare different culture media for microbes along with growth curve.	3	Emp, S
CO2	Students should be able to learn the enumeration of microorganisms from different spoil food samples/commodities etc.	3	S,Emp
CO3	Students should be able to learn to do various quality assessment test of milk and to learn morphological characteristics of microbes etc.	3	Emp, S

Course Name **Community Nutrition I Lab**

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Course Code **ND3540**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to learn about anthropometric measurements and their measuring sites.	3	Emp
CO2	Student shouldbe able to learn to create questionnaire for nutritional assessment of community people.	2	S,Emp
CO3	Student should be able to learn about different types of supplementory foods and their cooking techniques.	3	Emp,Ent,S

Course Name **Food Packaging Lab**
Course Code **ND3541**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about Identification of different types of packaging & packaging materials.	3	Emp
CO2	Students should be able to learn to perform non-destructive tests for glass containers etc.	2	S
CO3	Students should be able to learn about latest trends in packaging materials for different commodities	3	Emp

Course Name **Advance Dietetics I Lab**
Course Code **ND3542**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to plan therapeutic diets for various advance diseases like burns, cancer, Inborn errors diseases and advance gastro diseases.	3	Emp, S, Ent
CO2	Students should be able to learn the preparation of therapeutic diets for various advance diseases like burns, cancer, Inborn errors diseases and advance gastro diseases.	2	Emp, S, Ent
CO3	Students should be able to learn to calculate RDA,s according to individual patients for various diseases like burns, cancer, Inborn errors diseases and advance gastro diseases.	3	Emp, S, Ent

Course Name **Community Nutrition I**
Course Code **ND3501**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about role of nutrition in maintaining health and solving various nutritional problems prevailing in India	3	Emp
CO2	Students should be able to learn about various forms of malnutrition in Indian community and how to overcome them in the society	2	S
CO3	Students should be able to learn about various nutritional disorders their preventions and positive outcomes	3	Emp
CO4	Students should be able to learn about various nutritional assessment techniques used in community	2	Emp, S, Ent
CO5	Students should be able to learn about indirect method of nutritional assessment used in community	3	S

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Course Name **Food Packaging**
Course Code **ND3502**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about the concept, functions of packaging and packaging materials. The types of packaging materials used for different food commodities.	3	Emp
CO2	Students should be able to learn about the different types of modern packaging materials such as based based on aerosol, flexibe, semi flexibe and rigid packaging materials.	2	S
CO3	Students should be able to learn about the packaging of radiation based foods, its importance and applications in food packaging industries.	3	Emp
CO4	Students should be able to acquire knowledge about aseptic packaging along with different packaging materials used during heat processing techniques such as sterilization, pasteurization etc.	2	Emp, S, Ent
CO5	Students should be able to learn about packaging of finished food along with the labeling regulations.	3	S

Course Name **Advance Dietetics I**
Course Code **ND3503**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about different types of stress and its effect on human body. Students will learn the nutritional management in burn patients.	3	Emp, S, Ent

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CO2	Students should be able to learn about different types of cancer, its metabolism, nutritional management and how we can prevent it .	2	Emp, S, Ent
CO3	Students should be able to learn about different about different types of small bowel diseases and how it can be prevented by dietary changes.	3	Emp,S
CO4	Students should be able to learn about different Malabsorption diseases and its nutritional management.	2	Emp, S
CO5	Students should be able to learn about different inborn error diseases and which food should be avoided in them.	3	S,Emp

Course Name **Fitness & Sports Nutrition**
Course Code **ND 3504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about different types of concepts in terms of physical fitness.	3	Emp
CO2	Students should be able to learn about different fundamentals of sports nutrition and requirements of different nutrients.	2	S
CO3	Students should be able to learn about nutritional guideline for different categories of high performance sports.	3	Emp
CO4	Students should be able to learn about challenges faced in sports and nutrition and various strategies to overcome them.	2	S
CO5	Students should be able to learn about various dietary supplements and their use and abuse during sports training.	3	En, Emp

Course Name **Food Processing and Technology**
Course Code **ND3517**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the applications and scope of Food Science and Technology along with the production status of India for different commodities.	3	Emp, S, Ent
CO2	Students should be able to learn about methods of preservation by heat and Temperature.	2	S,Emp
CO3	Students should be able to learn about various screening methods employed in food preservation industries along with size reduction processess.	3	Emp, S
CO4	Students should be able to be learn the applications of preservation by drying and non thermal methods. They will also learn the method of preservation by concentration and evaporation.	2	Emp, s
CO5	Students should be able to learn about various membrane technology to increase shelf life of product along with its advantages and limitations	3	S,Emp

Course Name **Holistic Wellness and Life Remedies**
Course Code **ND3519**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the applications and scope of Food Science and Technology along with the production status of India for different commodities.	3	Emp, S, Ent
CO2	Students should be able to learn about methods of preservation by heat and Temperature.	2	S,Emp

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CO3	Students should be able to learn about various screening methods employed in food preservation industries along with size reduction processess.	3	Emp, S
CO4	Students should be able to be learn the applicationsof preservation by drying and non thermal methods. They will also learn the method of preservation by concentration and evaporation.	2	Emp, s
CO5	Students should be able to learn about various membrane technology to increase shelf life of product along with its advantages and limitations	3	S, Emp

Course Name **Human development during lifecycle**
Course Code **ND3520**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the applications and scope of Food Science and Technology along with the production status of India for different commodities.	3	Emp, S, Ent
CO2	Students should be able to learn about methods of preservation by heat and Temperature.	2	S,Emp
CO3	Students should be able to learn about various screening methods employed in food preservation industries along with size reduction processess.	3	Emp, S
CO4	Students should be able to be learn the applications of preservation by drying and non thermal methods. They will also learn the method of preservation by concentration and evaporation.	2	Emp, s
CO5	Students should be able to learn about various membrane technology to increase shelf life of product along with its advantages and limitations	3	S, Emp

Course Name **Internship Evaluation**
Course Code **ND3543**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn the applications and scope of Food Science and Technology along with the production status of India for different commodities.	3	Emp, S, Ent
CO2	Students should be able to learn about methods of preservation by heat and Temperature.	2	S,Emp
CO3	Students should be able to learn about various screening methods employed in food preservation industries along with size reduction processess.	3	Emp, S
CO4	Students should be able to be learn the applications of preservation by drying and non thermal methods. They will also learn the method of preservation by concentration and evaporation.	2	Emp, s
CO5	Students should be able to learn about various membrane technology to increase shelf life of product along with its advantages and limitations	3	S, Emp

Course Name **Community Nutrition II**
Course Code **ND3601**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about role of nutrition in maintaining health and solving various nutritional problems prevailing in India	2	Emp
CO2	Students should be able to learn about the relationship between infection and nutrition also about how infection leads to malnutrition at community level	3	S

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CO3	Students should be able to learn about various national nutrition program working for the betterment of society	3	S
CO4	Students should be able to learn about various national and international agencies with their mission and functions for the community	3	En
CO5	Students should be able to learn about how any nutrition program is planned, formulated, implemented and evaluated	2	None

Course Name **Community Nutrition II Lab**
Course Code **ND3640**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to learn about low nutrition rich recipes for community health	2	Emp
CO2	Student should be able to gain knowledge about nutritional assessment of different age groups.	2	S
CO3	Student should be able to learn about use and evaluation of audio visual aids	2	S

Course Name **Product Development and Sensory Evaluation**
Course Code **ND3602**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to do sensory evaluation of foods and instruments test for sensory attributes like color, texture and odor.	2	Emp
CO2	Students should be able to learn about designing of new product development, phases of new product develop development and role of sensory evaluation in consumer product acceptance.	2	S

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CO3	Students should be able to learn consumer behavior, factors influencing product acceptance and purchasing trends.	2	S
CO4	Students should be able to learn about market place changes in processed foods and application of market strategy.	2	En
CO5	Students should be able to learn about special food processing technologies and novel food ingredients. Advantages and disadvantages of different technologies.	1	None

Product Development and Sensory Evaluation

Course Name **Lab**

Course Code **ND3641**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to learn to analyzed different sensory quality attributes of the products.	2	Emp
CO2	Student should be able to learn to develop new product, its standardization, acceptability studies etc.	2	S
CO3	Student should be able to learn the market survey of different types of convenience foods and analysis of food labeling parameters	2	S

Course Name **Advance Dietetics II**

Course Code **ND3603**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about different types of surgery and HIV infection and its effect on human body along with its nutritional management.	2	Emp

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CO2	Students should be able to learn about different functions of gall bladder and pancreas, nutritional management in these diseases and how we can prevent it	2	S
CO3	Students should be able to learn about different nature and metabolism of Uric acid and its disease. Students will also learn about drug nutrient interaction and its affects.	2	S
CO4	Students should be able to learn about different liver diseases and its nutritional management.	2	Ent
CO5	Students should be able to learn about different additive behavior diseases and how it can be controlled.	1	None

Course Name **Advance Dietetics II Lab**
Course Code **ND3642**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student should be able to plan therapeutic diets for various advance diseases like Surgery, AIDS, Liver, Gall Bladder, Pancreas, Eating disorder etc	2	Emp
CO2	Student should be able to prepare therapeutic diets for various advance diseases like Surgery, AIDS, Liver, Gall Bladder, Pancreas, Eating disorder etc	2	S
CO3	Students should be able to learn to calculate RDA,s according to individual patients for variousdiseases like Surgery, AIDS, Liver, Gall Bladder, Pancreas, Eating disorder etc	2	S

Course Name **Food Preservation & Bakery**
Course Code **ND3617**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Student should be able to learn the applications and scope of Food Science and Technology along with the production status of India for different commodities.	2	Emp
CO2	Student should be able to learn about principles and methods of food preservation, by the use of chemical preservatives.	2	S
CO3	Student should be able to learn about bakery industry and its scope in the Indian economy. Students will also learn about preparation of pastry, biscuit and cakes.	2	S
CO4	Student should be able to learn about methods of preservation by heat and Temperature.	2	Ent
CO5	Student should be able to learn the applications of preservation by drying,non thermal methods, concentration and evaporation.	1	None

Course Name **Biostatistics & Research Methodology**
Course Code **RD3617**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand Research process and the application of statistics in .nutrition.		S
CO2	Students should be able to learn, identifying research problem, framing objectives, setting hypothesis& research design, testing hypothesis, reviewing literature.		Emp,
CO3	Students should be able to understand and implement Historical research, content analysis, causal-comparative research		En,s
CO4	Students should be able to develop a good observational scale		S , En
CO5	Students should be able to apply various statistical measurements for research data management and analysis.		S,En

Course Name **Fundamentals of Statistics**
Course Code **ND 3618**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about introduction of statistics and its presentation.	2	Emp
CO2	Students will be able to learn about measures of central tendency.	2	S
CO3	Students will be able to learn about measures of dispersion	2	S
CO4	Students will be able to learn about correlation and regression	2	Ent
CO5	Students will be able to learn about probability.	1	S

Course Name **Holistic Wellness and Life Remedies**
Course Code **ND3619**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about importance of holistic health.	2	Emp
CO2	Students will be able to learn about herbs used in Indian Tradition.	2	S
CO3	Students will be able to learn about different types of functional foods.	2	S
CO4	Students will be able to learn about different types of prebiotics and probiotics.	2	Ent
CO5	Students will be able to learn about different phytochemicals and antioxidants.	2	S

Course Name **Food Safety and Quality Control**
Course Code **ND3620**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will learn about the different types of food hazards and their impact on human health.	2	Emp
CO2	Students will learn about the food borne illnesses caused by bacteria, virus and parasites and naturally occurring toxicants in plant foods.	2	S
CO3	Students will learn about different types of adulteration in food products.	2	S
CO4	Students will learn about basic concept of food safety management and nutritional labeling and safety assessment of food packaging materials.	2	Ent
CO5	Students will learn about various food laws and standards and newer approaches to food safety.	2	Emp

Course Name **Health Psychology**
Course Code **ND 3621**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about need of Health psychology and its various perspectives.	2	Emp
CO2	Students will be able to learn about stress management and different relaxation techniques.	2	S
CO3	Student will be able to learn about Psychological dimensions and management of chronic illness.	2	S
CO4	Students will be able to learn about creativeness in thinking and problem solving and also learn about decision making strategies.	2	Ent

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CO5	Student will be able to learn about stages of memory, models & theory of information processing and important factors that affects forgetting.	2	Emp

Course Name **Health care and Hospital Administration**
Course Code **ND3622**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to learn about hospital management.	3	Emp
CO2	Students should be able to learn about the concepts of Food & Nutrition.	2	S
CO3	Students should be able to learn about the concepts of modern hospitality management.	3	Emp, S
CO4	Students should be able to learn about housekeeping methods in hospitals	2	Emp, S, Ent
CO5	Students should be able to learn about healthcare and medical tourism.	3	S, En

Course Name **Resource Management & Extension Education**
Course Code **ND 3623**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to understand the role of communication in education training and learning industry.	3	Emp
CO2	Student will learn about the resource management and resource conversation.	2	S
CO3	Student will learn about planning, supervision, controlling, organizing, evaluation.	3	Emp, S

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CO4	Students will be learning about the extension education and developing program for different community.	2	Emp, S, Ent
CO5	Students will learn about the extension communication and education	3	S, En

Program Nam **Masters of Science in Nutrition and Dietetics**

Course Name **Advance Nutritional Biochemistry**

Course Code **ND4101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand complex biological oxidation-reduction reactions in human body.	2	Emp, S
CO2	Students should be able to understand the metabolic pathway of protein and lipid metabolism.	**3**	Emp, S
CO3	Students should be able to understand about chemistry of enzymes and the factors affecting enzymes function.	**2**	Emp , s
CO4	Students should be able to learn about structure and metabolism of nucleic acids along with Spectrophotometric techniques.	2	Emp , S
CO5	Students should be able to learn about biosignaling of hormone along with regulation of body water and salt level.	3	Emp, S

Course Name **Clinical And Therapeutic Nutrition I**

Course Code **ND4108**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than
CO1	Students should be able to learn about different types of special nutrition support feeding and when and why this type of nutrition plays important role in critically ill patients.	3	Emp,S
CO2	Students should be able to learn about different types of heart diseases and how it can be prevented or treated with Nutritional intervention.	3	Emp,S
CO3	Students should be able to learn dietary management of different types of metabolic as well as degenerative diseases that occurs in old age. Students will also learn how body reacts in different types of stress.	3	Emp,S
CO4	Students should be able to learn about different types of diabetes mellitus and concept of Glycemic load & Glycemic index.	3	Emp,S

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CO5	Students should be able to learn aboutnutritional management during special conditions & inborn errors.	3	Emp,S

Course Name **Advance Nutritional Biochemistry Lab**
Course Code **ND4140**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Ent)/ None (Use , for more than
CO1	Students should be able to learn the preparation methods of starch.	3	S
CO2	Students should be able to determine the acid value, iodine value and saponification value of fats to check there purity.	4	S
CO3	Students should be able to estimate the various vitamins and minerals through food sources.	3	S

Course Name **Public Health Nutrition**
Course Code **ND4103**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn about nutrition related health issues in large community	4	Emp, S
CO2	Students should be able to learn about health related acts across the world	3	Emp , S
CO3	Students should be able to get knowledge about national international organization which are working for health and nutrition	4	Emp , s , En
CO4	Students should be able to learn , understand and apply laws related to food and health	2	Emp , S
CO5	Students should be able to plan and execute community health campaign in local areas	4	Emp , S

Course Name **HumanNutrition**
Course Code **ND4104**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn about energy needs ,RDA,Metabolic disorders and how it can be treated	3	Emp,S
CO2	students should be able to learn about carbohydrates and its effect on human body	4	Emp,, S
CO3	Students should be able to learn about Protein turnover,Assessment of protein quality, Adaptation to fasting and starvation and non nutritive components.	4	Emp,, S , En
CO4	Students should be able to learn about role of leptin and ghrelin in hunger and satiety and weight management.	4	Emp, S , En
CO5	Students should be able to learn about Role of n3 and n6 fatty acids in health and diseases ,cholesterol, antioxidants, sterols. Lipoproteins-transport and metabolism	3	Emp,

Course Name **Clinical and Therapeutic Nutrition Lab I**
Course Code **ND4141**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn to plan various types of therapeutic diets used in hospitals.	6	Emp
CO2	Students should be able to learn to plan and prepare therapeutic diets for various basic diseases like Diarrhea, constipation, peptic Ulcers and different types of Fevers.	6	Emp
CO3	Students should be able to learn to calculate RDA,s according to individual patients for various basic diseases like Diarrhea, constipation, peptic Ulcers and different types of Fevers	3	Emp

Course Name **Advanced Human Physiology**
Course Code **ND4105**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn about Blood composition, Erythropoiesis, Blood Coagulation and Blood Groups, Cardiac cycle and cardiac output, Blood pressure	2	Emp, S
CO2	Students should be able to learn about Respiratory and Excretory System in detail	2	Emp , S
CO3	Students should be able to learn about Digestive System:- Functions and regulation, Mechanism of digestion and absorption of carbohydrates,protein ,fats	2	Emp , s , En
CO4	Students should be able to learn about Reproductive System: Structure and function of male and female sex glands and organs.	2	Emp , S
CO5	Students should be able to learn about Endocrine System:- Definition, functions and kinds of hormones, Structure and functions of the following glands	2	Emp , S

Course Name **ScientificWriting&NutritionCommunication**
Course Code **ND4106**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand research and its methodology	2	S
CO2	Students should be able to learn , understand and memorize rules of research writing	2	Emp,
CO3	Students should be able to understand and implement creativity in research , report and seminars	2	En,s
CO4	Students should be able to develop a good project ongenuine problems	2	S , En
CO5	Students should be able to design synopsis scientifically	1	S,En

Course Name **PublicHealthNutrition Lab**
Course Code **ND4142**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to prepare low cost recipes for the community people.	3	Emp, S
CO2	Students should be able to develop low cost and highly nutritious recipes.	3	Emp, S
CO3	students should be able to calculate nutritional value of the nutritious innovative recipes.	3	Emp, S,En

Course Name **ScientificWriting&NutritionCommunicationLab**
Course Code **ND4145**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to build competence in scientific writing skills.	3	Emp,, S
CO2	Students should be able to develop understanding regarding the vitals aspects of nutrition communication and their use in nutrition and health education	3	Emp, S
CO3	Students should be able to understand skills to plan & use IEC.	3	Emp, S,En

Course Name **BiochemicalFoodAnalysisandInstrumentation**
Course Code **ND4201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn about Nutritional support recent advances in techniques .	3	Emp,S

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CO2	Students should be able to learn about Aetiopathogenesis of Heart disease treatment, preventive aspects, lifestyle and dietary management	4	Emp,S
CO3	Students should be able to learn about Nutritional Management in Trauma Conditions dietary management in Burns, Surgery, Stress and trauma	2	Emp,S
CO4	Students should be able to learn about Nutritional Management in Diabetes Mellitus	2	Emp,S
CO5	Students should be able to learn about Nutritional Management in Special Conditions Space travel, High altitudes, Inborn errors of metabolism	2	Emp,S

Course Name **Clinical and Therapeutic Nutrition II**
Course Code **ND4202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to Learn the basic principles of multi-variable calculus with their proofs. They should be able to classify partial differential equations and transform them into canonical form. They will also understand how to extract information from partial derivative models in order to interpret reality.	2	Emp
CO2	Students should be able to Understand and learn how to find the area and volume of any region and solid body respectively by integral and also find the moments of inertia for a thin plate in plane.	2	Emp
CO3	Students should be able to Understand theorems related to directional derivative of gradient and reproduce its proof. They should be able to Explain the concept of a vector integration in a plane and in space.	2	S
CO4	Know basic application problems described by second order linear differential equations with constant coefficients. They should be also able to understand and solve the applications associated with Laplace Transform.	2	S
CO5	Students should be able to Solve the linear equations using matrix properties and Determine characteristic equation, eigen values, eigenvectors and diagonalizable of a matrix.	1	Emp

Course Name **Advances in Nutrition**
Course Code **ND4206**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn about different food agriculture and new technologies for changing trends in life style patterns in different population groups.	2	Emp,S
CO2	Students should be able to learn about effects of food on drug therapy: enteral nutrition interactions with medication, drug distribution, drug metabolism and excretion in human body.	2	Emp,S
CO3	Students should be able to learn about nutraceuticals, nutrigenomics, nutrigenetics and active compound in functional food and antioxidants and how it can be prevent various types of diseases in human body.	2	Emp,S
CO4	Students should be able to learn about different food safety measures in the food industry.	2	Emp,S
CO5	Students should be able to learn about latest trends in nutritional labelling: additives, colors preservatives, allergen information and different types of sugar derivatives.	3	S

Course Name **Nutrition For Fitness and Sports**
Course Code **ND4204**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand requirements and needs of athlete	3	Emp,S
CO2	Students should be able to learn how to calculate diet for athlete	3	S
CO3	Students should be able to learn how to examine level of nutrition in healthy and unhealthy person at various levels	2	S
CO4	Students should be able to learn to provide best diet counseling to athlete as well as health conscious people	2	Emp,S
CO5	Students should be able to motivate others towards healthy lifestyle	2	Emp,S

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Course Name **Research Methodology and Biostatistics**
Course Code **ND4207**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to understand Research process and the application of statistics in .nutrition.	2	S
CO2	Students should be able to learn, identifying research problem, framing objectives, setting hypothesis& research design, testing hypothesis, reviewing literature.	2	Emp,
CO3	Students should be able to understand and implement Historical research, content analysis, causal-comparative research	2	En,s
CO4	Students should be able to develop a good observational scale	1	S , En
CO5	Students should be able to apply various statistical measurements for research data management and analysis.	2	S,En

Course Name **BiochemicalFoodAnalysisandInstrumentationLab**
Course Code **ND4240**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to know about various food analyzers	2	S
CO2	Students should be able to conduct proximate analysis of antioxidants and micronutrients.	3	Emp,S
CO3	Student should be able to learn to implement these analysis in their research	3	Emp,S

Course Name **Clinical and Therapeutic Nutrition Lab II**
Course Code **ND4141**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to plan diets for various diseases related to heart disease, diabetes mellitus, stress conditions etc..	6	Emp,S
CO2	Students should be able to prepare diets for various diseases related to heart disease, diabetes mellitus, stress conditions etc..	6	Emp,S
CO3	Students should be able to calculate diets for various diseases related to heart disease, diabetes mellitus, stress conditions etc..	3	Emp,S,En

Course Name **Research methodology & Computer Application LAB**
Course Code **ND4244**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	To impart knowledge related to computer and various softwares use in the feild of Nutrition & Dietetics AND plan diets for various diseases related to heart disease, diabetes mellitus, stress conditions etc..	6	Emp,S
CO2	To impart knowledge related to computer and various softwares use in the feild of Nutrition & Dietetics and prepare diets for various diseases related to heart disease, diabetes mellitus, stress conditions etc..	6	Emp,S
CO3	To impart knowledge related to computer and various softwares use in the feild of Nutrition & Dietetics And calculate diets for various diseases related to heart disease, diabetes mellitus, stress conditions etc..	3	Emp,S,En

Course Name **Advanced Food Science**
Course Code **ND4301**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn about the nutritional importance of cereals, legumes and oilseeds and also learn about various new technologies of baking	3	Emp
CO2	Students should be able to learn about various technologies of meat, fish, poultry, egg and their products.	2	Emp
CO3	Students should be able to learn about various new technologies of milk and milk products.	2	Emp
CO4	Students should be able to learn about classification and new technologies of fruits & vegetables and their products	2	Emp
CO5	Students should be able to learn about various processing & preservation techniques of food.	3	Skill

Course Name **Advanced Food Microbiology**
Course Code **ND4302**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn about the interaction of microorganisms with food. The scope and importance of Food microbiology.	2	Emp
CO2	Students should be able to learn about the various parameters of microbial analysis like sampling, culturing and transport of microbial culture along with the identification methods.	2	Skill
CO3	Students should be able to learn about protection and preservation of foods. They will also learn about microbial standard such as HACCP.	2	Emp
CO4	Students should be able to learn about the spoilage, contamination along with the prevention methods of different food groups.	2	Emp
CO5	Students should be able to acquire knowledge about the different food borne diseases caused by various causative agents such as salmonella, listeria, clostridium etc.	2	Emp

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Course Name **Advance Food Service Management**
Course Code **ND4303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn about different food service systems and principles of working there	3	Skill
CO2	Students should be able to learn about importance of space organization in an institute various procedures of cost accounting and cost analysis	3	Emp
CO3	Students should be able to learn about different types of menu planning, purchasing principles in any food industry	3	Skill
CO4	Students should be able to learn about sanitation and hygiene, techniques to overpower accidents in the kitchen and various rules and regulations required for working in a kitchen	3	Emp
CO5	Students should be able to learn about various labor laws, welfare schemes for employees and staff member.	3	Emp

Course Name **Advanced Food Science Lab**
Course Code **ND4340**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn about various processing techniques and their application on different food products.	3	Skill
CO2	Students should be able to learn about evaluation of different food grains and their packaging.	5	Emp
CO3	Students should be able to gain the practical knowledge of different processing aspects of foods.	3	Emp

Course Name **Food Product Development, Safety and Quality Development**
Course Code **ND4304**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn about food needs and consumer preferences and also learn about market survey and its importance for new products development (NPD).	2	Emp
CO2	Students should be able to learn about the process, activities, success factors and market- oriented methodologies for designing of new product development.	3	Emp
CO3	Students should be able to learn about standardization, statistical analysis and stages of integration of market and sensory analysis and evaluation.	2	Skill
CO4	Students should be able to learn about quality and safety aspects for newproduct development (NPD).	2	Emp
CO5	Students should be able to learn about advertisement and marketing fornew product development (NPD).	3	Skill

Course Name **Advanced Food Microbiology Lab**
Course Code **ND4341**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn to prepare culture media for the growth and enumeration of microorganisms.	6	skill
CO2	Students should be able to acquire knowledge for microbiological analysis of processed and unprocessed food.	4	Emp
CO3	Students should be able to learn to microbiological quality of milk and water etc.	3	skill

Course Name **Advance Food service Management Lab**
Course Code **ND4342**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to analysis the different layouts of kitchen.	4	Skill
CO2	Students should be able to standardize various recipes and have in- house training of food service management and also learn the cost analysis.	6	Skill
CO3	Students should be able to gain knowledge of various food service equipments used in catering management.	3	Emp

Course Name **Food Product Development , Safety& Quality Development Lab**
Course Code **ND4343**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn about the methodology and evaluation required for new product development	5	Emp
CO2	Students should be able to learn about analysis physical & chemical properties of new product development	4	Emp
CO3	Students should be able to gain knowledge about various aspects of sensory evaluation of a new product.	3	Emp

Course Name **Nutrition Epidemiology Pediatric and Geriatric Nutrition**
Course Code **ND4216**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to learn about the type of epidemiological studies and various variables	2	Emp
CO2	Students will be able to learn about pediatric nutrition and management of related problems	3	Emp

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CO3	Students will be able to learn about therapeutic care and management of children.	2	Skill
CO4	Students will be able to learn about various geriatric changes, consequences and related nutrition.	2	Emp
CO5	Students will be able to learn about therapeutic care and management of elderly.	3	Skill

Course Name **Food Processing Technology**
Course Code **ND4217**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to learn the detailing related to baking technology.	2	Emp
CO2	Students will be able to learn in detail related to processing technology used in Non-Vegetarian food items.	3	Emp
CO3	Students will be able to learn in detail related to processing technology used in Fruits and vegetables food items.	2	Skill
CO4	Students will be able to learn in detail related to processing technology used in Milk & Milk Products food items.	2	Emp
CO5	Students will be able to learn in detail related to preservation methods used in fruits & vegetables food items.	3	Skill

Course Name **Clinical Psychology**
Course Code **ND4218**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will be able to understand the basics of clinical field of psychology.	2	Emp
CO2	Students will be able to learn the behaviour of the person in different health conditions.	3	Emp
CO3	Students will be able to understand the procedures of prevention, promotion and management of psychological disorders	2	Skill
CO4	Students will be able to learn the different intervention methods for psychological disorders	2	Emp

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CO5	Students will be able to learn the counseling techniques.	3	Skill

Course Name **Functional Foods & Nutraceuticals**
Course Code **ND4316**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn about history, concept, evolution of nutraceuticals & functional foods. They will also learn about different types of nutraceuticals.	2	Emp
CO2	Students should be able to learn about different Phytochemicals, antioxidants, flavanoids and their role in health and diseases.	3	Emp
CO3	Students should be able to learn about the various methods used to isolate, extract and purify the various bioactive compounds.	2	Skill
CO4	Students should be able to learn about pre & probiotics and their health benefits in various diseases	2	Emp
CO5	Students should be able to learn about different functional foods and other new technologies or nutraceuticals that will be making new trends	3	Skill

Course Name **Food Toxicology**
Course Code **ND4318**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn about food toxicology and its evaluation.	2	Emp
CO2	Students should be able to learn about various food toxicants	3	Emp
CO3	Students should be able to learn about various food allergens	2	Skill
CO4	Students should be able to learn about various environmental contaminants and drug residues in food.	2	Emp
CO5	Students should be able to learn about various safety aspects of food	3	Skill

Course Name **Food Anthropology**
Course Code **ND4319**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students should be able to learn about the research tools used in anthropology.	2	Emp
CO2	Students should be able to learn about anthropology and its relevance.	3	Emp
CO3	Students should be able to learn about cultural interpretation of Malnutrition and Rural Urban and its differences.	2	Skill
CO4	Students should be able to learn about comparing rural vs urban differences in anthropology.	2	Emp
CO5	Students should be able to learn about applications of Operations Research in anthropology	3	Skill

Program Nam **Bachelor of Hotel Management**

Course Name **Food Production Foundation- I**

Course Code **HM3110**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand working flow of professional kitchens, Hierarchy of Kitchen Department, Classical Kitchen Brigade, Duties & Responsibilities of various chefs in kitchen, their attributes.	1	S
CO2	Students will get knowledge of various kitchen equipments and Fuels used for preparing food.	1	S
CO3	Students will get knowledge of various Herbs & Spices Cereals and Pulses, Fruits and Vegetables, and Salt, Sweeteners, Fat, Milk and Milk Products used in kitchens.	2	S
CO4	Students will be able to understand the various Stocks preparations, use of Stocks and preparation of Sauces, Preparation of Mother Sauces, Understanding their derivatives.	2	S
CO5	Students will be able to understand the various Soups preparations, use of Soups and preparation of Salads, , compositions, types, dressings of salads.	3	S

Course Name **Food & Beverage Service Foundation- I**

Course Code **HM3111**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the concept of service of food & beverages, Hierarchy of F&B Service Department, F&B Service Brigade, Modern Staffing in various hotels, Duties & Responsibilities of various employees in F&B Service department.	3	Em
CO2	Students will be able to get knowledge about different types of F&B equipments, , Food Service Tools and their Usage in F&B service department.	2-3	Em

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CO3	Students will understand the different types of fuel used in F&B service department.	2-3	Em
CO4	Students will get knowledge of various Condiments and Sweeteners, Presenting menu to guests, Table setup and Receiving and Greeting the Guests.	2-3	Em
CO5	Students will get knowledge of various food service, Preparation for Services, Mise-en-place and Mise-en-scene, arrangement and setting up of station, Par stocks maintained at each side station, emerging trends in Food Services and salient features.	2-3	Em

Course Name **Front Office Foundation- I**
Course Code **HM3114**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	To make student remember and learn about origin, evolution importance of Tourism and hospitality Industry and the various sub sections classifications under front office department	3	Em
CO2	To make Student acquire a knowledge of classification of hotels on various factors	2-3	Em
CO3	To make student remember and learn about the Hierarchy of front office of various size of hotel. Student will also gain an insight on the tariff structure, factors, brochure of hotels and will apply this knowledge further.	2-3	Em
CO4	To make student learn about communication importance, flow of communication and its relevance in Hotel industry.	2-3	Em
CO5	Student will memorize and recollect the various activities performed by Front Office and simultaneously also understand about the stationary and equipments used in Front office department.	2-3	Em

Course Name **Housekeeping Foundation- I**
Course Code **HM3115**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The student will come to know about the Basic concept, meaning, definition, historical evolution and development of Hospitality & Tourism industry.	3	Em
CO2	The student will be able to learn about Products and Services of Hospitality and Tourism industry.	2-3	Em
CO3	The student will be able to learn about the Types and Classification of Hotels and Ownership in Hospitality industry.	2-3	Em
CO4	The student will be able to understand Basics of Tourism Industry. Meaning, Characteristics and Components of Tourism. Tourist Typology, Tourism Resources and Tourism Products etc.	2-3	Em
CO5	The student will be able to learn about various Tourism Services and Business Distribution Channels.	2-3	Em

Course Name **Introduction to Hospitality and Tourism Industry**
Course Code **HM3116**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The student will come to know about the Basic concept, meaning, definition, historical evolution and development of Hospitality & Tourism industry.	3	Em
CO2	The student will be able to learn about Products and Services of Hospitality and Tourism industry.	2-3	Em
CO3	The student will be able to learn about the Types and Classification of Hotels and Ownership in Hospitality industry.	2-3	Em
CO4	The student will be able to understand Basics of Tourism Industry. Meaning, Characteristics and Components of Tourism. Tourist Typology, Tourism Resources and Tourism Products etc.	2-3	Em

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CO5	The student will be able to learn about various Tourism Services and Business Distribution Channels.	2-3	Em

Course Name **Food Production Foundation-I Lab**
Course Code **HM3144**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand working flow of professional kitchens, Hierarchy of Kitchen Department, Classical Kitchen Brigade, Duties & Responsibilities of various chefs in kitchen, their attributes.	1	S
CO2	Students will get knowledge of various kitchen equipments and Fuels used for preparing food.	1	S
CO3	Students will get knowledge of various Herbs & Spices Cereals and Pulses, Fruits and Vegetables, and Salt, Sweeteners, Fat, Milk and Milk Products used in kitchens.	2	S
CO4	Students will be able to understand the various Stocks preparations, use of Stocks and preparation of Sauces, Preparation of Mother Sauces, Understanding their derivatives.	2	S
CO5	Students will be able to understand the various Soups preparations, use of Soups and preparation of Salads, , compositions, types, dressings of salads.	3	S

Course Name **Food & Beverage Service Foundation-I Lab**
Course Code **HM3145**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the concept of service of food & beverages, Hierarchy of F&B Service Department, F&B Service Brigade, Modern Staffing in various hotels, Duties & Responsibilities of various employees in F&B Service department.	3	Em

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CO2	Students will be able to get knowledge about different types of F&B equipments, , Food Service Tools and their Usage in F&B service department.	2-3	Em
CO3	Students will understand the different types of fuel used in F&B service department.	2-3	Em
CO4	Students will get knowledge of various Condiments and Sweeteners, Presenting menu to guests, Table setup and Receiving and Greeting the Guests.	2-3	Em
CO5	Students will get knowledge of various food service, Preparation for Services, Mise-en-place and Mise-en-scene, arrangement and setting up of station, Par stocks maintained at each side station, emerging trends in Food Services and salient features.	2-3	Em

Course Name **Front Office Foundation– I Lab**
Course Code **HM3147**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the F.O. equipment , Types & Classification of Hotels on different basis; Star Categorization, Heritage Hotels and others in India, Types & Classification of Hotels on different basis; Star Categorization, Heritage Hotels and others in India.	2	Em
CO2	Students will get knowledge of Telephone handling .	2-3	Em
CO3	Students will be able to understand the basics of front office, importance of front office, Different sections of the front office department and their layout and importance – Reservation, Reception, Concierge, Bell desk, Lobby, Telephones, Cashier.	2	Em
CO4	Students will get information of organizational structure of front office, Job Descriptions, Attributes of Front Office Personnel and standard of grooming.	3	Em
CO5	Students will get knowledge of Hotel housekeeping, Introduction, Meaning and definition Importance of Housekeeping, Sections of Housekeeping, Responsibilities of the Housekeeping department, a career in the Housekeeping department.	2	Em

Course Name **Housekeeping Foundation-I Lab**

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Course Code **HM3148**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the basic introduction about Housekeeping department, Importance, Attributes and Quality of Housekeeping	2	Em
CO2	Students will be able to Identify the organizational framework of the department and Front-of-the-house and Back-o f-the-house areas of Housekeeping department.	2-3	Em
CO3	Students will be able to understand the hotel guestroom, Importance of guestroom to a guest, Rules on guest floors and Standard contents of a Guestroom.	2	Em
CO4	Students will be able to understand the Housekeeping control desk and its importance, lost & found procedure, Key control system and Handling guest queries and Telephone calls.	3	Em
CO5	Students will be able to Identify Cleaning equipment, operating principles of cleaning equipment, Importance of cleaning agents.	2	Em

Course Name **Disaster Preparedness & Management**
Course Code **CE3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	To learn about the disasters caused by nature and human activities and its types.	1	Em
CO2	To understand the concept of risk and vulnerability analysis.	2	Em
CO3	To understand about the disaster preparedness.	3	Em
CO4	To understand the concept of disaster response.	2	Em
CO5	To understand about the rehabilitation, reconstruction and recovery for disaster management.	3	Em

Course Name **Food Production Foundation-II**

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Course Code **HM3212**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand different types of cooking methods used in kitchen for cooking various types of foods and understand the role of HACCP principles in kitchen.	3	Em
CO2	Students will be able to understand the proper methods of cooking of Egg, Meat and Poultry.	2	Em
CO3	Students will be able to understand the types of Fish and Shellfish used in kitchen, their classification, different types of fish cut used in fish cookery and classical dishes of fish prepared in hotels.	2	Em
CO4	Students will be able to understand about importance of vegetables in cooking different types of food and how the effect of heat can change food quality, taste and texture .	3	Em
CO5	Students will be able to understand different types of vegetables used in cooking, cuts of vegetables and use of vegetables in Indian food. Nutritional and Hygiene aspects of vegetables.	2	Em

Course Name **Food & Beverage Service Foundation -II**
Course Code **HM3213**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the type of non-alcoholic beverage used in hotels, preparations of mocktails and service techniques of non-alcoholic beverages and mocktails.	3	Em
CO2	Students will gain knowledge of Coffee shop and types of breakfast served in hotels. Students will understand the concept of coffee service and equipment used in service of breakfast.	2	Em

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CO3	Students will be able to understand the Concept of Restaurant and different types of restaurants and their operations.	1	Em
CO4	Students will get the knowledge of receiving guest, taking order, providing food & beverage service to guest and will understand the concept of theme based and specialty restaurants.	1	Em
CO5	Students will be able to understand the concept of In room dinning, Need and expectations of guest towards room service and Do's and Don'ts in room service.	2	Em

Course Name **Front Office Foundation-II**
Course Code **HM3216**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the various Types of reservation used in hotels.	3	En
CO2	Students will gain knowledge of different types of Records and forms used in registration process .	2	En
CO3	Students will be able to understand the role of front desk, reservation system and different types of tools used in front desk of a hotel.	1	Em
CO4	Students will get the knowledge of different types of rooms and their plans, tariff fixation, understand the guest cycle, Group reservations and procedure for check-in and check-out.	2	Em
CO5	Students will be able understand the procedure for Room cleaning, Evening service, Spring cleaning and use of maid's cart trolley.	1	Em

Course Name **Housekeeping Foundation-II**
Course Code **HM3217**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Students will be able to understand the various types of cleaning agents are used in domestic and industries, various types of cleaning equipment used in cleaning, different types of wall and floor covering used in hotels.	3	En
CO2	Students will gain knowledge of different types of cleaning schedules for room cleanings, learn about key control system, understand the role of control desk in housekeeping.	2	En
CO3	Students will be able to understand the role of Key Handling Procedure , reservation system and different types of tools used in Key Handling Procedure of a hotel.	1	Em
CO4	Students will get the knowledge of different types of Housekeeping Supervision	2	Em
CO5	Students will be able understand the procedure for Room cleaning, Evening service, Spring cleaning and use of maid's cart trolley.	1	Em

Course Name **Concept and Practices in Tourism**
Course Code **HM3218**

Unit-wise Course Outcome			
CO1	Students will be able to understand the various types of Characteristics of Tourism	3	En
CO2	Students will gain knowledge of different types of 5 A's of Tourism	2	En
CO3	Students will be able to understand the Meaning, Concept, Definition, Components and Types of Significance of Tourism. Economic, Social, Cultural and Environmental impact of Tourism.	1	Em
CO4	Students will get the knowledge of different types Tourism Regulations	2	Em
CO5	Students will be able understand the National Tourism Trade Associations.	1	Em

Course Name **Food Production Foundation-II Lab**
Course Code **HM3244**

Unit-wise Course Outcome	**Descriptions**	**BL Level**	**Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than**

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CO1	Students will be able to understand different types of cooking methods used in cooking foods and standards of HACCP used in hotel kitchen & Students will be able to understand Do's and Don'ts followed in professional kitchen.	1	Em
CO2	Students will be able to prepare simple breakfast dishes (Hard & soft boiled egg, Poached egg, Fried egg, Scrambled egg and omelets) & Students will be able to understand about meat, poultry and fish, different types of cuts, cooking of vegetables and cuts of vegetables.	2	Em
CO3	Students will be able to understand the term blanching and process of blanching used for Tomatoes and Capsicum & Students will be able to cook vegetable dishes using different methods of cooking (Boiling, Frying, Steaming and Braising)	3	Em
CO4	Students will be able to cook various vegetable and meat dishes & Students will be able to identify various varieties of rice and pulses.	3	Em
CO5	Students will be able to prepare simple dishes of Rice and understand the concept of boiling and absorption of rice dishes & Students will be able to prepare various Indian food like Rice, Dal, Chapattis, Parathas, Phulkas and simple breakfast dishes	2	Em

Course Name **Food & Beverage Service Foundation -II Lab**
Course Code **HM3245**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand different types of Non- alcoholic beverage prepared and serve according to their service techniques & Students will be able to understand the Do's and Don'ts while interacting with guest.	1	Em
CO2	Students will be able to prepare different types of mock tails and will be able to serve mock tails according to hotel standards & Students will be able to set-up breakfast layout, understand different types of breakfast services.	2	Em

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CO3	Students will be able to understand Food service in restaurant and will be able to receive guest, present menu, set-up tables and Dealing with in-house guests & Students will be able to understand Restaurant service, Food pickup procedure and will be able to receive guest, present menu, set-up tables, Clearance and Dishwashing procedure.	3	Em
CO4	Students will be able to do room service, taking orders from guest rooms and serving food according to guest demand & Students will be able to understand different types of room service equipment used in room service and food pickup procedure for room service.	2	Em
CO5	Students will be able to understand different Layout Knowledge & Students will be able to understand Dishwashing area FOR Food & Beverage service area.	1	Em

Course Name **Front Office Foundation-II Lab**
Course Code **HM3247**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the various Types of reservation used in hotels.	3	En
CO2	Students will gain knowledge of different types of Records and forms used in registration process .	2	En
CO3	Students will be able to understand the role of front desk, reservation system and different types of tools used in front desk of a hotel.	1	Em
CO4	Students will get the knowledge of different types of rooms and their plans, tariff fixation, understand the guest cycle, Group reservations and procedure for check-in and check-out.	2	Em
CO5	Students will be able understand the procedure for Room cleaning, Evening service, Spring cleaning and use of maid's cart trolley.	1	Em

Course Name **Housekeeping Foundation-II Lab**
Course Code **HM3248**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the various types of cleaning agents are used in domestic and industries, various types of cleaning equipment used in cleaning, different types of wall and floor covering used in hotels.	3	En
CO2	Students will gain knowledge of different types of cleaning schedules for room cleanings, learn about key control system, understand the role of control desk in housekeeping.	2	En
CO3	Students will be able to understand the role of Key Handling Procedure , reservation system and different types of tools used in Key Handling Procedure of a hotel.	1	Em
CO4	Students will get the knowledge of different types of Housekeeping Supervision	2	Em
CO5	Students will be able understand the procedure for Room cleaning, Evening service, Spring cleaning and use of maid's cart trolley.	1	Em

Course Name **Environmental Studies**
Course Code **CY3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the multidisciplinary nature of environment and Ecosystem, Scope and importance of Ecosystem and energy flow in an Ecosystem.	3	Em
CO2	Students will be able to understand the importance of Natural resources, renewable and non-renewable resources.	2	Em

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CO3	Students will be able to understand the levels of biological diversity, bio geographic zones of India and different threats to biodiversity.	3	Em
CO4	Students will be able to understand the environmental pollution and its types a) Air pollution b) Water pollution – freshwater and marine c) Soil pollution d) Noise pollution e) Thermal pollution and Solid waste management	1	Em
CO5	Students will identify the discarded procedure followed by housekeeping & Students will be able to understand the Linen Inventory system.	2	Em

Course Name **United Nations Development Programme**
Course Code **HU3202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will learn about the Structure, Mission, Vision and Goals of UNDP	2	S
CO2	Equip the students with the knowledge of sustainable livelihoods for inclusive economic growth.	2	S
CO3	Students will learn and explore about the Human Development index to promote well being at all ages.	2	S
CO4	To impart better education on SDGs goals focusing on Gender Equality and Provide Access to Justice to All and Build Effective.	3	N
CO5	Students will develop knowledge regarding environment sustainability.	3	N

Course Name **Foreign Language Skills (French)**
Course Code **HM3410**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the basics of French language i.e. The Alphabet, The Accents, The numbers Cardinal & Ordinal and Time (only 24 hr. clock); Weights & Measures	1	Em

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CO2	Introduce themselves, Presenting and Introducing others. Also learn about the names of vegetables & fruits, Days of the weak and Name of the months in French.	1	Em
CO3	Understand the name of the Countries and their Nationalities, Conjugation of second group of verbs, Adjective of place and also be able to describe their own place or any tourist place in French.	2	Em
CO4	Understand the Vocabulary & Conjugation of irregular verbs. They will be able to describe their family members, Name of dairy products and use of various verbs in French.	2	Em
CO5	Understand the Restaurant brigade, name of herbs & spices used in kitchen, name of French Wines, French Classical Menu with classic - examples of each course	3	Em

Course Name **Introduction to Indian Cookery**
Course Code **HM3411**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the Indian cookery, regional influence on Indian food, various popular food of different regions of India and various characteristics and salient features of Indian Food.	1	Em
CO2	Understand the various condiments , Herbs and Spices (Allspice, Ajowain, Aniseed, Asafetida, Bay leaf, Cardamom, Cinnamon, Cloves, Coriander seeds, Cumin, Fenugreek, Mace, Nutmeg, Mustard, Pepper, Poppy Seeds, Saffron, Tamarind, Turmeric, Celery, Curry Leaf) Used in Indian Food and also get the information to use the spices in different ways and storage of spices	1	Em
CO3	Understand that various Masalas & Pastes used in Indian Cookery, concept of using wet & dry masalas in Indian food. Also learn that how to store and purchase various masalas.	2	Em
CO4	Get the knowledge of various Indian gravies used in Indian food. Like- Masala Gravy, Yellow Gravy, White Gravy, Makhani Gravy and Red gravy.	2	Em

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CO5	Understand the various Commodities used in Indian Cookery also they will get the knowledge about various Souring agents, coloring agents, tendering agents, Flavoring agents, Aromatic agents and Spicing agents used in Indian food.	3	Em

Course Name **Food & Beverage service Operations**
Course Code **HM3412**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to understand the planning & operating concept of Food & Beverage outlets.	2	Em
CO2	Student will able to understand & apply various type of Buffet setup in Banquets	1	Em
CO3	Student will able to understand the concept of F & B Control.	1	Em
CO4	Student will able to understand the concept of Budget in F & B Service outlets.	2	Em
CO5	Student will able to understand & apply the Menu Management in Catering Operations.	3	Em

Course Name **Front Office Operations**
Course Code **HM3414**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will able to understand the Front Office Accounting.	2	Em
CO2	Student will able to understand Role of information technology in the hospitality industry.	1	Em
CO3	Student will able to understand the Credit Control, Importance, Guest Payment methods.	1	Em
CO4	Student will able to understand the Guest accounts settlement, Cash and credit.	2	Em

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CO5	Student will able to understand Hotel security staff & System, Role of Front Office.	3	Em

Course Name **Housekeeping Operations**
Course Code **HM3415**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	To gain Knowledge Cleaning of Public areas, Pest Control, Concerns for safety and security in Housekeeping	2	Em
CO2	Course will give the knowledge above Uniform Room, Selection.	1	Em
CO3	This course will help the students to learn about basics of Functions of Laundry.	1	Em
CO4	By this course student get of Principles of Flower Arrangement.	2	Em
CO5	Students will be able to understand about the Basic elements for growth of plants.	3	Em

Course Name **Tour Operation and Management**
Course Code **HM3416**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The student will come to know about Tour Operation: Meaning, Concept and Definition. Difference between Travel Agency and Tour Operation Business.	1	Em
CO2	The student will be able to understand the Functions of Travel Agency & Tour Operator, Itinerary Preparation, Reservation, Ticketing, Marketing and Selling of Tour Packages, Tour Package Formulation and Assembling, Preparation of Itineraries, Pre Tour and Post Tour Management.	2	Em

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CO3	The student will be able to learn about Meaning, Concept, Definition, Components and Types of Tour Packages. Advantages and Disadvantages of Tour Packages. Liaisoning and Negotiation of Tour Packages, Travel Terminology, Current and Popular Travel Trade Abbreviations, Terms used in in Tourism industry.	3	Em
CO4	The student will be able to understand the Itinerary Preparation, Meaning, Definition and Concept. Typology of Itinerary, Factors to be considered while preparing an Itinerary.	2	Em
CO5	The student will be able to learn about Tour Operation Documentation and Travel Formalities like Passport, Visa, Health Certificate, Customs, Currency, Travel Insurance etc.	2	Em

Course Name **Introduction to Indian Cookery Lab**
Course Code **HM3445**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the Indian cookery, Cooking and Preparation of simple popular foods & Understand the three course menu from each region of India.	1	Em
CO2	Understand that various Masalas used in Indian Cookery, concept of using wet & dry masalas in Indian food. Also learn that how to store and purchase various masalas Do's & Don'ts & Get the knowledge of various Indian gravies used in Indian food. Like- Masala Gravy.	3	Em
CO3	Understand the various Commodities used in Indian Cookery also they will get the knowledge about various Souring agents, coloring agents, tendering agents, Flavoring agents, Aromatic agents and Spicing agents used in Indian food & Get the knowledge of various Indian gravies used in Indian food. Like- Yellow Gravy.	1	Em
CO4	Get the knowledge of various Indian gravies used in Indian food. Like- White Gravy & Get the knowledge of various Indian gravies used in Indian food. Like- Makhani Gravy.	2	Em

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CO5	Get the knowledge of various Indian gravies used in Indian food. Like and Red gravy & Understand the commodities and their usage in Indian Kitchens.	3	Em

Course Name **Food & Beverage service Operations- Lab**
Course Code **HM3446**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the Restaurant Set ups and type of service & Understand the Service of Afternoon & High teas	1	Em
CO2	Understand the Buffet Lay –up, theme Buffets set up & Understand the Theme Parties.	3	Em
CO3	Understand the Role Plays & Situation handling in Restaurant & Understand the Guerdon Service	1	Em
CO4	Understand the Types of service & Understand the Service of Tea and Coffee	2	Em
CO5	Understand the Taking Reservation in Restaurant & Understand the Taking Reservation in Banquets	3	Em

Course Name **Front Office Operations-Lab**
Course Code **HM3448**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the Restaurant Set ups and type of Hot function keys	1	Em
CO2	Understand the Buffet Identification of Icons.	3	Em
CO3	Understand the Registration.	1	Em
CO4	Understand the Filling all the Guest details in the system for a reserved guest.	2	Em
CO5	Understand the Posting in guest folio from front office, modifying the posting.	3	Em

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Course Name **Housekeeping Operations Lab**
Course Code **HM3449**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	To be familiar and gain knowledge about cleaning of public areas in Hotels & Course will give an understanding about requisite of different types of guest.	2	Em
CO2	This course will give an understanding about guest check in By this course student get a knowledge about facilities to be required for hotel guest.	3	Em
CO3	Students will learn about Layout of Linen Room &Linen Inventory system.	1	Em
CO4	Student will seek the importance of Selection and Designing of Uniforms.	1	Em
CO5	Students will gain knowledge about Use of Laundry Machinery and Equipment.	3	Em

Course Name **Indian Knowledge System**
Course Code **HU3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	The students will be able to understand the Indian Knowledge System such as historical development, sources and scope.	2	S
CO2	The students will be able to understand the vocabulary system of Indian knowledge system.	2	S
CO3	The students will be able to understand and apply the philosophical foundations and methods of IKS.	3	N
CO4	The students will be able to execute the case studies based on the Indian knowledge system.	3	N

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CO5	The students will be able to understand the influence of Indian Knowledge System on world.	2	S

Course Name **Regional Cuisines of India -I**
Course Code **HM3501**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to understand the brief history of Kashmiri, Himanchali and Uttarakhand Cuisines, staple food of the state and special dishes prepared during festivals and special occasions.	2	Em
CO2	Students will be able to understand the brief history of Punjabi cuisine, Haryana and Delhi Cuisines, staple food of the state and special dishes prepared during festivals and special occasions.	3	Em
CO3	Students will be able to understand the brief history of Rajasthani cuisine, staple food or special ingredients grown and used in the cuisine of the state and special dishes prepared during festivals and special occasions.	2	Em
CO4	Students will be able to understand the brief history of Gujrati cuisine, staple food or special ingredients grown and used in the cuisine of the state and special dishes prepared during festivals and special occasions.	1	Em
CO5	Students will be able to understand the brief history of Maharashtrian cuisine and Goa, staple food of the state and special equipments used for preparing food, special dishes prepared during festivals and special occasions.	2	Em

Course Name **Food & Beverage Service Management- I**
Course Code **HM3502**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Students will be able to understand the importance of Spirits & Whisky, types of spirits and brands of Indian & International spirits.	1	Em
CO2	Students will get the knowledge of Brandy & Rum, types of Rum & Brandy, brands of Indian & International Rum and Brandy.	2	Em
CO3	Students will get the knowledge of Vodka & Gin, types of Vodka & Gin, brands of Indian & International Vodka & Gin.	2	Em
CO4	Students will gain knowledge of Tequila, Production of Tequila, Indian & International Brands of Tequila and service of Tequila	1	Em
CO5	Students will get information about various liqueurs, Indian & International brands of liqueurs, service of Liqueurs.	3	Em

Course Name **Accommodation Management -I**
Course Code **HM3503**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will understand about the supervision of various Housekeeping operations.	1	Em
CO2	Students will be able to understand the Planning of Housekeeping operations, Planning for Manpower, SOPs, planning duty rossters etc.	3	Em
CO3	Students will get knowledge about Housekeeping budget, Types of budget, purchasing system & stock records.	2	Em
CO4	Students will get knowledge about Hubbart formula used for planning and evaluting various front office opeations, about forcasting and Thumb rules for various rates.	3	Em
CO5	Students will gain knowledge of Contract services used in Housekeeping operations.	2	Em

Course Name **Front Office Management-I**
Course Code **HM3505**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will know about the Knight Audit and his work into Hospitality Industry.	2	Em
CO2	Student will know about the Room Revenue Analysis and his work into Hospitality Industry.	1	Em
CO3	Student will know about of discounted rate and his work into Hospitality Industry.	3	Em
CO4	Student will know about the Human services vs Artificial Intelligence Services and his work into Hospitality Industry.	2	Em
CO5	Student will know about the Room Revenue analysis and his work into Hospitality Industry.	2	Em

Course Name **Marketing for Hospitality and Tourism**
Course Code **HM3506**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will know about the basic of Marketing and his work into Tourism Industry		Em
CO2	Student will know about the Market Segmentation and his work into Tourism Industry		Em
CO3	Student will know about the Product Life Cycle and his work into Tourism.		Em
CO4	Student will know about the Marketing communication and his work into Industry		Em
CO5	Student will know about the Role of employees in service delivery and his work into Tourism.		Em

Course Name **Regional Cuisines of India I Lab**
Course Code **HM3540**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to prapaer a complete manu of 4-5 dishes of kashmiri Cuisine & Students will be able to prapaer a complete manu of 4-5 dishes of Himanchali Cuisine	2	Em
CO2	Students will be able to prapaer a complete manu of 4-5 dishes of Uttarakhand Cuisine & Students will be able to prapaer a complete manu of 4-5 dishes of Punjabi Cuisine.	2	Em
CO3	Students will be able to prapaer a complete manu of 4-5 dishes of Haryana Cuisine & Students will be able to prapaer a complete manu of 4-5 dishes of Delhi Cuisine	3	Em
CO4	Students will be able to prapaer a complete manu of 4-5 dishes of Rajasthani Cuisine & Students will be able to prapaer a complete manu of 4-5 dishes of Gujrati Cuisine	2	Em
CO5	Students will be able to prapaer a complete manu of 4-5 dishes of Maharashtian Cuisine & Students will be able to prapaer a complete manu of 4-5 dishes of Goa Cuisine	3	Em

Course Name **Food & Beverage Service Management I Lab**
Course Code **HM3541**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to serve Alcoholic beverages : Wines and Spirits & Students will understand how to open the corks of wine Botteles	2	Em
CO2	Students will be able to do service of Spirits & Liqueurs & Studets will be able to setup Bar.	1	Em
CO3	Students will be able to make cocktails & mocktails and Present the cocktails or mocktails to guest & Students will be able to serve Cigarettes & Cigars	2	Em

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CO4	Students will conduct Briefing & Debriefing in F&B outlets & Students will get knowledge of service of Beer and Brewed beverages.	2	Em
CO5	Students will have knowledge of servicing of Sparkling, Fortified, Aromatized and Still wines & Students will be able to setup table with prepared menu and wines.	3	Em

Course Name **Accommodation Management –I Lab**
Course Code **HM3542**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to prepare guestrooms & Students will be able to check public area checklist.	1	Em
CO2	Students will get to know about preparing Duty Roaster & Students will get to know about Planning guestroom layouts.	2	Em
CO3	Students will know about the Boutique Hotels & Students will know about Power points on silent features in respect to accommodations in hotels	3	Em
CO4	Students will understand the Hotel budgeting & Students will get information about facing professional interviews.	2	Em
CO5	Students will get to know the complition of guest cycle in software & Students will be able to do Night auditing process.	3	Em

Course Name **Front Office Management-I Lab**
Course Code **HM3543**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to prepare guestrooms & Students will be able to check public area checklist.	1	Em

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CO2	Students will get to know about preparing Duty Roaster & Students will get to know about Planning guestroom layouts.	2	Em
CO3	Students will know about the Boutique Hotels & Students will know about Power points on silent features in respect to accommodations in hotels	3	Em
CO4	Students will understand the Hotel budgeting & Students will get information about facing professional interviews.	2	Em
CO5	Students will get to know the complition of guest cycle in software & Students will be able to do Night auditing process.	3	Em

Course Name **Regional Cuisines of India -II**
Course Code **HM3601**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the cuisine of Andhra Pradesh, Tamil Nadu & Kerala. They will learn and get knowledge of different types of food preparations and various traditional equipment used in cuisine.	2	Em
CO2	Understand the cuisine of Awadh. They will learn and get knowledge of different types of food preparations, Geographical prospective of the region and traditional equipment used for cuisine. They will be informed about the staple diet, community foods or foods prepared during special occasions.	1	Em
CO3	Understand the cuisine of Bengal and Odisha. They will learn and get knowledge of different types of food preparations, Geographical prospective of the region and traditional equipment used for cuisine. They will be informed about the staple diet, community foods or foods prepared during special occasions.	1	Em
CO4	Get the knowledge of various Sweets & Desserts of India. Students will learn about the famous sweets and desserts of different regions of India and also able to prepare the popular sweets and desserts.	2	Em
CO5	Understand the food of India, various community food and its importance in Indian Cuisine, various style of cooking Indian food	2	Em

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Course Name **Food & Beverage Service Management II**
Course Code **HM3602**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the role of Food Beverage Service and his importance for Hospitality	1	Em
CO2	Identify and use the different types of Bar Management, bar menu etc and importance.	2	Em
CO3	Students will be able to know about the concepts of Food & Beverage Control and how to importance for F&B Service Department.	3	Em
CO4	Student will gain knowledge about the Cost Concept and his importance for Bar and Food & Beverage Service department.	2	Em
CO5	Students will be aware with the Budget and his importance for F&B Service Department.	2	Em

Course Name **Accommodation Management-II**
Course Code **HM3603**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the Interior Decoration and its importance for Housekeeping.	2	Em
CO2	Identify and use the different types of Color and his importance for Accommodation Operation.	3	Em
CO3	Students will be able to know about the concepts of Floor & Wall covering and why is nursery for hospitality industry.	1	Em
CO4	Student will gain knowledge about the computer and his importance. And also information about the type of application use into Hotel management for room ready.	2	Em

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CO5	Students will be aware with the Planning & Evaluating front office work and night audit etc.	2	Em

Course Name **Human Resource Management for Hospitality**
Course Code **HM3604**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the HRM and its importance for Hospitality and tourism management.	1	Em
CO2	Identify and use the different types of Requirements, concept & also informational about the Training Cycle, Organizational Culture & Training.	2	Em
CO3	Students will be able to know about the concepts of Employee Performance & also information about the challenges comes to HRM.	1	Em
CO4	Student will gain knowledge about the computer and his importance. And also information about the Theories & Employee management.	3	Em
CO5	Students will be aware about the job satisfaction, Organization culture and action.	3	Em

Course Name **Front Office Management-II**
Course Code **HM3606**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the Operational Budget and its importance for Hospitality and tourism management.	1	Em
CO2	Identify and use the different types of Multiple occupancy ratio	2	Em
CO3	Students will be able to know about the Conflicts and conflict management	1	Em

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CO4	Student will gain knowledge about the Need of the technology in Front Office	3	Em
CO5	Students will be aware about the Room Revenue analysis	3	Em

Course Name **Regional Cuisines of India II Lab**
Course Code **HM3640**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the menu of Cuisines of Andhra Pradesh and his importance for food production department & Students will be able to know about the Cuisines of Tamil Nadu & also information about the cooking methods use in to cuisine if they are cook the food.	3	Em
CO2	Students will be able to know about the Cuisines of Awadh also information about the how to cook the food this cuisine and his importance & Student will gain knowledge about the Cuisines of Bengal and also information about the Recipe for Cuisines of Bengal	3	Em
CO3	Student will gain knowledge about the Cuisines of Odisha and also information about the Recipe for Cuisines of Odisha & Students will be able to know about the Cuisines of North East & also information about the cooking methods use in to Cuisines of North East	2	Em
CO4	Students will be able to know about the Cuisines of Madhya Pradesh & also information about the cooking methods use in to cuisine if they are cooking the food & Students will be able to know about the Tandoori Foods & also information about the cooking methods use in to Tandoori Foods if they are cooking the food.	3	Em
CO5	Students will be able to know about the Sweet Dishes & also information about the cooking methods Sweet Dishes if they are cooks the Sweet Dishes & Student will gain knowledge about the Making Indian Chutneys & also information about the type of Chutney	2	Em

Course Name **Food & Beverage Service Management II Lab**
Course Code **HM3641**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the Bar's and his Documents use into bars & his importance for Bars & Identify and use the different types of Liquor and his brands in these worlds which are used into Bars now days	3	Em
CO2	Students will be able to know about the Role Plays & Situation handling in Bar Whiskey , Vodka, Rum , Gin based cocktail & Student will gain knowledge about the Bar Setups of different types & services, Service of Wines & Bar Menus	3	Em
CO3	Students will be aware about the Reading Wine Labels, Cocktail parties & Students will be able to prepare whisky based cocktails and service the cocktails.	2	Em
CO4	Students will be able to prepare Vodka based cocktails and service the cocktails & Students will be able to prepare Rum based cocktails and service the cocktails..	3	Em
CO5	Students will be able to prepare Gin based cocktails and service the cocktails & Students will be able to prepare Brandy based cocktails and service the cocktails.	2	Em

Course Name **Accommodation Management-II Lab**
Course Code **HM3642**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be able to learn, understand computer application (Hotel Management System & Software) related to Rooms Division & Students will be able to understand and learn about the presentations on Interior Decorations and different styles of flower arrangements used in Hotels.	2	Em

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CO2	Students will be able to learn and understand about the guest reservation process in the guest management module in the Hotelogix Software and perform it efficiently & Students will get the knowledge and hands on practice on guest reservation in the software.	1	Em
CO3	Students will learn about the splitting of bills of various point of sale used in hotel by the guest & Students will learn about the creation of registration card with the folio and helps to trace the guest transaction through it.	2	Em
CO4	Students will be enable to perform various operations during the stay of the guest in the hotels & Students will also learn about the opening and closing of folio since the arrival, stay of guest and departure of guest.	3	Em
CO5	Students will gain an insight about the check out and departure procedure to be carried on by the hotel staff & Students will gain an insight on guest account settlement by various modes of payment during the check out and post departure cycle.	2	Em

Course Name **Front Office Management- II Lab**
Course Code **HM3643**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will understand about the Letter writing.	2	Em
CO2	Student will understand about the Service Recovery	1	Em
CO3	Student will understand about the Communication activities	2	Em
CO4	Student will understand about the Upselling skills	3	Em
CO5	Student will understand about the Preparing Front Office Budget	2	Em

Course Name **Entrepreneurship Development in Hospitality**
Course Code **HM3701**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Understand the Entrepreneur & Entrepreneurship and his importance for New Business.	1	S
CO2	Identify and use the different types of Entrepreneurship also information about the Tourism and women entrepreneurs emerging challenges, We also information about the scope and problems.	3	S
CO3	Students will be able to know about the concepts of EDP and his importance of training target group. Also information about the factors affecting tourism entrepreneurial growth.	2	S
CO4	Student will gain knowledge about the Venture promotion steps for prospective business ideas or opportunities.	3	S
CO5	Students will be aware with the study of Entrepreneur & Entrepreneurship. And make project of different type of field.	3	S

Course Name **Culinary Management**
Course Code **HM3702**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand the Meat and His Cooking Methods use during cooking food.	2	Em
CO2	Identify and use the different types of Cut into Vegetable and also understand about the salad and cold cut for Kitchen Department.	1	Em
CO3	Students will be able to know about the concepts of bakery Kitchen and different type of Breads making by Bakery section.	1	Em
CO4	Student will gain knowledge about the Yeast and his Process of food items during cooking or Baking food.	3	Em
CO5	Students will be aware with the study of Presses of Cake & Pasties making and Baking Methods.	3	Em

Course Name **Food & Beverage Service Management**
Course Code **HM3703**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand about the Foodservice Industry, Food Safety & also information about the Cleaning, Sanitation and food safety.	2	Em
CO2	Students will be able to know about the concepts of Purchasing, Receiving, Storage and also information about the Beverage and his importance for Hospitality industry.	3	Em
CO3	Students will be able to know about the Facilities Planning And Design, Equipment And Furnishings and what are the importance for Food & Beverage Service department.	2	Em
CO4	Student will gain knowledge about the Staffing Challenges, Performance Improvement, HRM, and Financial Management & Marketing Management.	1	Em
CO5	Students will be aware with the Menu Planning and his importance for Hospitality Industry.	2	Em

Course Name **Front Office Management**
Course Code **HM3704**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand about the Hotel Revenue Generations, Service, also information about the role of F/O Department.	3	S
CO2	Identify and use the different types of process of check in or check out also information about the how to make good relations with the guest for long time.	2	S
CO3	Students will be able to know about the concepts of Revenue Management and also information about the Internal Assessment & Principles and Demand Forecasting.	1	Em

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CO4	Student will gain knowledge about the Staffing Challenges, Recruitments & Training & also information about the role of Supervisor and Managers Responsibilities.	3	Em
CO5	Students will be aware with the Safety and security of guest and also information about the Environmental and Sustainability Issues.	2	Em

Course Name **Laundry Management in Hotels**
Course Code **HM3705**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will understand the concept and importance of a laundry in a hotel; also they will get knowledge of various functions, professional setup, equipment and chemicals used in hotel laundry.	2	Em
CO2	Students will understand the types of laundry used by hotels and understand their functions.	2	Em
CO3	Students will get the knowledge of planning a hotel laundry and various operations of a professional laundry.	3	Em
CO4	Students will understand that how to manage various operations of a laundry like- valet's service, collection of guest laundry, laundry cycle and maintaining records & registers.	2	Em
CO5	Students will understand various emerging trends in laundry like- Environmental aspects, Energy conservation, various new techniques, and Information technology and quality assurance.	2	Em

Course Name **Bakery Management**
Course Code **HM3706**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Students will understand the concept and importance of a Bakery & Confectionery in a hotel; also they will get knowledge of various functions, professional setup, equipment and Food used in hotel Bakery.	1	Em
CO2	Students will understand the types of Bakery used by hotels and understand their functions.	3	Em
CO3	Students will get the knowledge of planning a hotel Bakery and various operations of a professional Kitchen.	2	Em
CO4	Students will understand that how to manage various operations of a Bakery like- valet's service.	1	Em
CO5	Students will understand various emerging trends in Bakery and his importance for Hospitality & Tourism.	2	Em

Course Name **Application of Computers in Hospitality**
Course Code **HM3707**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be understand the basics of computer and importance of computer.	1	Em
CO2	Students will be understand the basics of softwares and Hardware systems of computer.	2	Em
CO3	Students will be able to understand the role of computer in Hotel & Hospitality industry.	3	Em
CO4	Students will be able to do word processing and featuring of MS Word, Preparing PPTs and preparing graphs.	2	Em
CO5	Students will be able to understand the basics of Internet, importance of Internet and types of networks (LAN, WAN & MAN).	3	Em

Course Name **Organizational Behaviour in Hospitality**
Course Code **HM3708**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Students will be understand the basics of Organizational Behavior.	1	Em
CO2	Students will be understand the basics of Theories of Personality.	2	Em
CO3	Students will be able to understand the Theories of Learning.	3	Em
CO4	Students will be able to Traditional and modern approaches to conflict	2	Em
CO5	Students will be able to understand the basics of Leadership.	3	Em

Course Name **Principles of Management in Hospitality**
Course Code **HM3709**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will Understand about the Management History.	1	Em
CO2	Student will Understand about the Decision-Making Process.	2	Em
CO3	Student will Understand about the Types of Organization Structure.	3	Em
CO4	Student will Understand about the Theories of Motivation: Abraham Maslow, Fredric Herzberg.	2	Em
CO5	Student will Understand about the Elements and Significance of Directing. Principles of Directing.	2	Em

Course Name **Culinary Management Lab**
Course Code **HM3740**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will Understand about the Menu According to Cuisine.(Consommé Carmen, Poulet Sauté Chasseur, Pommes Loretta, Haricots Verts) & Student will Understand about the Menu According to Cuisine.(Bisque D'écrevisse , Escalope De Veau viennoise, Pommes Batailles, Epinards au Gratin)	1	Em
CO2	Student will Understand about the Menu According to Cuisine.(Crème Du Barry , Darne De Saumon Grille, Sauce paloise, Pommes Fondant, Petits Pois A La Flamande) & Student will Understand about the Menu According to Cuisine.(Kromeskies , Filet De Sols Walweska, Pommes Lyonnaise, Funghi Marirati)	2	Em
CO3	Student will Understand about the Menu According to Cuisine.(Soft Rolls , Chocolate Parfait) & Student will Understand about the Menu According to Cuisine.(Garlic Rolls , Crêpe Suzette)	3	Em
CO4	Student will Understand about the Menu According to Cuisine.(Ciabatta , Chocolate Brownie) & Student will Understand about the Menu According to Cuisine.(Herb & Potato Loaf , Doughnuts)	2	Em
CO5	Student will Understand about the Menu According to Cuisine.(Choux pastry: Chocolate eclaire , profitroll suchard; cream buns) & Student will Understand about the Menu According to Cuisine.(Short crust pastrv: Lemon curd tart; jaw tart)	2	Em

Course Name **Food & Beverage Service Management Lab**
Course Code **HM3741**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than

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CO1	Student will Understand about the Layout of Food Service Outlets & Organizations & Student will Understand about the Food Service Operations	2	Em
CO2	Student will Understand about the Conferencing & Banqueting & Student will Understand about the Equipment and Furnishings	2	Em
CO3	Student will Understand about the Environmental Management in Food Service Operations & Student will Understand about the Visit to a professional Food Service Outlet	2	Em
CO4	Student will Understand about the Inventory & Student will Understand about the Preparation of Cocktails	1	Em
CO5	Student will Understand about the Preparation of Mocktails & Student will Understand about the Wines-Services	1	Em

Course Name **Front Office Management Lab**
Course Code **HM3742**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will Understand about the Prepare for interview & Student will Understand about the Extempore.	1	Em
CO2	Student will Understand about the Group discussions & Student will Understand about the Role play on various situations in front office	2	Em
CO3	Student will Understand about the Hands on Practice on Hotel Logic software & Student will Understand about the Role play on upwelling.	3	Em
CO4	Student will Understand about the Calculation of Revenue management questions & Student will Understand about the Presentation skills.	2	Em
CO5	Student will Understand about the Rooming Procedure & Student will Understand about the Custody on emergency situations in Hotel	2	Em

Course Name **Laundry Management in Hotels Lab**
Course Code **HM3743**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Student will Understand about the Layout of Laundry & Student will Understand about the Laundry Machinery and Equipment	2	Em
CO2	Student will Understand about the Stain Removal & Student will Understand about the Visit to a professional Laundry	2	Em
CO3	Student will Understand about the Chemicals used in laundry & Student will Understand about the Coordination with other department.	2	Em
CO4	Student will Understand about the Process of linen exchange & Student will Understand about the Planning for Laundry.	1	Em
CO5	Student will Understand about the Valet Service & Student will Understand about the Forms & Formats maintained in Laundry	1	Em

Course Name **Bakery Management Lab**
Course Code **HM3744**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than
CO1	Understand about the Bread rolls.	1	Em
CO2	Students will be able to know about the Types of Danish; Pastry.	2	Em
CO3	Students will be able to know about the Importance of Presentation Skills, Russian stolen Basic bun dough.	3	Em
CO4	Student will gain knowledge about the Biscuits & Cookies	1	Em
CO5	Students will be aware with the Short crust pastry.	1	Em

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Program Nam **Integrated Bachelor of Arts and Bachelor of Law (Hons)**

Course Name **Legal Method**

Course Code **LW5101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to gain elementary understanding of the scope and purpose of law.	BL-2	Em
CO2	Students will be able to know the various sources of law and to develop an understanding of basic concepts of law	BL-2	Em
CO3	Students will be able to understand legal studies from the point of view of basic concepts of law and legal system.	BL-2	Em
CO4	Students will be able To garner skills and acquire knowledge required in legal writing and research.	BL-3	s
CO5	Students will be able to apply basic knowledge of fundamental concepts of law.	BL-3	None

Course Name **Law of Contract-I**

Course Code **LW5102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand an advanced and integrated understanding of the legal framework for contract law, including formation, content and interpretation of contracts in Indian law.	BL-2	Em
CO2	They will gain an understanding of fundamental principles of the law of contract and its impact.	BL-2	Em
CO3	They are able to identify and apply the elements of contract law required to create an enforceable contract.	BL-2	Em
CO4	Will be able to apply the required legal principles necessary to discharge a contract.	BL-3	s

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CO5	Identify and apply the remedies available to a party in case of a breach of contract.	BL-4	Em

Course Name **Legal English and Communication Skills**
Course Code **LW5103**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand, identify, develop and practice essential English speaking skills during their legal studies and in their everyday life.	BL-2	Em
CO2	They will gain the constituents of good oral and written language.	BL-1	Em
CO3	They are able to inculcate amongst student's courtroom language.	BL-3	s
CO4	Will be able to Imbibe among students the intricacies of Client Interviewing.	BL-2	s
CO5	Will be able to Understand methods of Legal Counseling.	BL-2	Em

Course Name **Human Values and Ethics**
Course Code **PS3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will understand basic psychological concepts: domains, history and scope of psychology	BL-2	None
CO2	Students will study about neuropsychology and brain structure and how they are involved with cognitive psychology.	BL-2	None
CO3	Students will understand how psychology is different from philosophy and considered as science.	BL-2	None
CO4	Students will be able to recognize and apply various perception and attention theories	BL-2	None
CO5	Students will be able to apply different motivational theories to day to day life.	BL-2	None

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Course Name **Fundamental Psychological Processes I**
Course Code **PS3108**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will understand basic psychological concepts: domains, history and scope of psychology	BL-1	None
CO2	Students will study about neuropsychology and brain structure and how they are involved with cognitive psychology.	BL-2	None
CO3	Students will understand how psychology is different from philosophy and considered as science.	BL-2	None
CO4	Students will be able to recognize and apply various perception and attention theories	BL-2	None
CO5	Students will be able to apply different motivational theories to day to day life.	BL-3	None

Course Name **Principles of Micro Economics**
Course Code **EM3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will learn about the concepts of macroeconomics and understand the meaning and components of national income.	BL-2	None
CO2	Define money and the money supply; describe the process of money creation by the banking system and the role of the central bank.	BL-2	None

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CO3	Interpret macroeconomic events using aggregate demand and aggregate supply model, describe the interrelationships among prices, income, and interest rates as they affect consumption, savings and investment.	BL-2	None
CO4	Student can analyze the work of different multiplier in an economy.	BL-3	None
CO5	Student will learn about different budgetary components of Budget.	BL-2	None

Course Name **Communicative English**
Course Code **EG3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to discuss the concept of communication skills	BL-2	None
CO2	Students will be able to increase self awareness about English language.	BL-2	None
CO3	Students will be able to develop public speaking abilities.	BL-2	None
CO4	Students will be able to present each and everything in correct manner.	BL-2	None
CO5	Students will be able to discuss the concept of barriers to communication.	BL-2	None

Course Name **Communication and professional Skill-I**
Course Code **VP3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	On the completion of course the Students will be able to write, understand, analyze and create sentences in professional language (English). Students' horizon will be expanded with the correct usage of Grammar in writing and speaking, and will be able to improvise their speaking ability.	BL-2	S
CO2	Students will be able to take part in daily routine conversation in English	BL-2	S
CO3	Students will be able to understand and partially be groomed in corporate etiquettes and culture	BL-2	S
CO4	This course will aid the students to learn words and form strong vocabulary, use them correctly in a sentence while speaking and writing. Moreover, understand their meaning in the text	BL-2	S
CO5	The Students will learn to use strategies to listen actively and able to distinguish more important ideas from less important ones. Implement them while participating in the discussions. Henceforth, It yields the improvement in understanding, analyzing, creating and implementing the learning into real world	BL-2	S

Course Name **Title: Law of Torts and Consumer Protection**

Course Code **LW5201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The Students will understand principles of Tortious liability.	BL-2	Em
CO2	They are able to take defenses available in an action for torts	BL-2	Em
CO3	Students will have a comprehensive understanding about the Liability under Law of Torts.	BL-2	Em
CO4	They are able to find out specific torts against the individual and property.	BL-2	Em

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CO5	Students will be able to apply basic procedures and principles for handling consumer dispute.	BL-3	Em

Course Name **Law of Contract-II**
Course Code **LW5202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand the context and rationale of specific contracts of Indemnity, Guarantee.	BL-2	Em
CO2	They will understand the context and rationale of specific contracts of Bailment, Pledge.	BL-2	Em
CO3	They are able to apply the principles and doctrines that guide contracts and Exhibit an understanding of the legal concepts involved in such contracts.	BL-3	Em
CO4	Will be able to analyze and Determine what rights and duties parties acquire under Partnership Act.	BL-4	Em
CO5	Know the contract of sale have with our day to day commercial activities and their impact on the social and economic front.	BL-2	Em

Course Name **Introduction to Sociology**
Course Code **LW5203**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn the scope of sociology and its relationship with law.	BL-2	Em
CO2	Students will be able to understand the various terms and concepts related to sociology.	BL-3	Em

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CO3	Students will learn about the historical social reform movements of India.	BL-2	Em
CO4	Students will be able to analyze how law acts as a body of control.	BL-3	Em
CO5	Students will be able to understand the socialist theories and social problems along with the legislation policies.	BL-3	Em

Course Name **Fundamental Psychological Processes II**
Course Code **PS3206**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students actively learn to investigate dynamic interrelations of man and environment. Making students to learn and understand the procedures of memory and how to improve memory.	BL-3	None
CO2	Students will understand mental processes, motives, reactions, feelings, conflict resolution, crisis management, group think, motivation, and nature of mind.	BL-3	None
CO3	Students will enhance the scientific aptitude and analytical thinking to help in diagnosis and devise solutions for their maladies.	BL-1	None
CO4	The world is constantly changing in its social-economic, political and cultural landscape thereby rendering human life more complex. These events continually impact human behavior producing depression and anxiety. Thus, psychology can help individuals to learn and	BL-2	None
CO5	The students will be able to learn the art of counseling and handling patients with different psychological problems and will be able to apply those practical aspects in their professional areas.	BL-3	None

Course Name **Money and Banking**
Course Code **EM3206**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Student will learn about the concepts of Barter system and its defect; Evolution of Money- Meaning, definitions &Functions; Methods of note issues.Structure and importance of Money market	BL-2	None
CO2	Student ill understand the The demand for money: The Cash Transaction Approach, Cash Balance Approach, Keynesian theory of money, Friedman's Restatement of QTM	BL-2	None
CO3	Student will understand Types of Banks, Functions of commercial Bank, Credit creation processs, Nationalization of commercial banks in India, Reforms in Banking sector in India	BL-2	None
CO4	Student can analyze Inflation and Deflation- Definition & types, causes & effects of Inflation; Demand pull and Cost push Inflation, Inflationary Gap	BL-3	None
CO5	Student will learn about different Recent publications on the website of Finance Ministry of India, IMF and World Bank; Narasimhan Committee report and RaghuramRajan's committee report on Monetary Reforms; Recent events hamper	BL-2	None

Course Name **Indian Economics**
Course Code **EM3205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be able to discuss the concept Basic features, Human Resource Development, Broad demographic features, Population and economic development, Growth and structural changes in Gross Domestic Product	BL-2	None
CO2	Students will be able to Causes of low productivity in Indian agriculture, Trends in agricultural production and productivity	BL-2	None
CO3	Students will be able to understand New Industrial policy, Privatization and disinvestment debate, Micro Small and Medium enterprises: problems and prospects, Foreign Trade: Trends, composition and direction; Causes and effects of persistent deficit in the	BL-2	None
CO4	Students will be able to understand India's tax system; Ratio of direct and indirect taxes; Tax reforms since 1991; Goods and Services Tax (GST): features and progress	BL-2	None
CO5	Students will be able to discuss Indicators of Human Value Index, Demographic profile of India, Poverty estimates, Employment scenario, Socio- Economic and Caste Census Project : Prepare Time series data from either Census of India	BL-2	None

Course Name **Communication and Professional Skills-II**
Course Code **VP3201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	After the course the students will be able to write/understand and create sentences in English of all tenses, Students will heighten their awareness of correct usage of English grammar in writing and speaking and will be able to improve their speaking ability in English both in terms of fluency and comprehensibility.	BL-2	s
CO2	Students will be able to take part in daily routine conversation in English.	BL-2	s

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CO3	Students will be able to understand and partially be groomed in corporate etiquettes and culture	BL-2	s
CO4	This course will aid the students to learn new vocabulary words, use them correctly in a sentence while speaking and writing, , and understand their meaning in the text	BL-3	s
CO5	The students will learn to use strategies to listen actively, will be able to distinguish more important ideas from less important ones and will participate in the discussions.	BL-2	s

Course Name **Disaster Preparedness and Management**
Course Code **CE3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	After the course the students will be able to write/understand and create sentences in English of all tenses, Students will heighten their awareness of correct usage of English grammar in writing and speaking and will be able to improve their speaking ability in English both in terms of fluency and comprehensibility.	BL-2	s
CO2	Students will be able to take part in daily routine conversation in English.	BL-2	s
CO3	Students will be able to understand and partially be groomed in corporate etiquettes and culture	BL-2	s
CO4	This course will aid the students to learn new vocabulary words, use them correctly in a sentence while speaking and writing, , and understand their meaning in the text	BL-3	s
CO5	The students will learn to use strategies to listen actively, will be able to distinguish more important ideas from less important ones and will participate in the discussions.	BL-2	s

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Course Name **Jurisprudence**
Course Code **LW5301**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They are able to demonstrate an advanced and integrated understanding of the political, social, historical, philosophical, and economic context of law. .	BL-2	None
CO2	They are able to engage in identification, articulation and critical evaluation of legal theory and the implications for policy.	BL-3	None
CO3	They are able to Understand research complex problems relating to law and legal theory and make reasoned and appropriate choices amongst alternatives.	BL-2	None
CO4	They are able to understand research complex problems relating to law and legal theory and make reasoned and appropriate choices amongst alternatives.	BL-2	None
CO5	Students will be able to apply basic concepts related to ownership, possession and person.	BL-3	None

Course Name **Family Law –I (Hindu Law)**
Course Code **LW5302**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand family law and learn about basic concepts like marriage, divorce, parental custody, domestic abuse and children's rights.	BL-2	Em
CO2	They will understand historical and social contexts that have influenced the modern definition and regulation of families.	BL-2	Em

CO3	They are able to gain skills of thinking, apply, written and verbal presentation of ideas of argument	BL-3	Em
CO4	Will be able to apply and Determine what rights and duties parties acquire under Family Law..	BL-3	Em
CO5	Will be able to apply and Determine what rights and duties parties acquire under Family Law.	BL-3	Em

Course Name **Information Technology law**
Course Code **LW5303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will be able to understand, explain, distinguish and apply the fundamental legal principles of information technology law covered in the course.	BL-2	Em
CO2	They will be able to apply a range of approaches to written and oral communication, and apply the critical thinking required to bring about solutions to complex legal problems in the area of information technology law.	BL-2	Em
CO3	They are able to demonstrate many ways in which rapidly changing technology can affect, and be affected by, the law, in a way that can assist clients with their planning or legislators with their proposals.	BL-2	Em
CO4	Will be able to apply and determine what rights and duties acquire under Information Technology Law.	BL-3	Em
CO5	Will be able to analyze and determine what rights and duties acquire under Information Technology Law.	BL-4	Em

Course Name **Principles of Sociology**
Course Code **LW5304**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand about the pre and post British Indian society, family system and impact of industrialization on family system.	BL-2	None
CO2	To develop the ability to explain the various concept of caste system.	BL-2	None
CO3	To understand the concept of industrialisation, modernisation and globalisation and its impact on the Indian society.	BL-2	None
CO4	To discuss about the social problems present in the society.	BL-2	None
CO5	To understand about the rural society, agrarian structure, and village power structure.	BL-2	None

Course Name **Introduction to Developmental Psychology**
Course Code **PS3304**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Be able to demonstrate a broad working knowledge of developmental psychology by providing an overview of basic principles related to biosocial, cognitive and psychosocial changes throughout the entire lifespan.	BL-2	None
CO2	Be able to demonstrate an understanding of different stages of development through the lifespan.	BL-2	None
CO3	Identify and apply developmental concepts to everyday life	BL-3	None
CO4	Demonstrate improved critical thinking and communication skills	BL-3	None

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CO5	Identify major theorists that contribute to the field of developmental psychology.	BL-2	None

Course Name **Development Economics**
Course Code **EM3303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To Develop the ability to explain core development economics concepts and measures of economics change, growth, and development	BL-2	None
CO2	To Develop the ability to explain core economic models.	BL-2	None
CO3	To understand the concept of Land, Labor and Credit Markets	BL-3	None
CO4	To understand demographic concept of development economics.	BL-3	None
CO5	To Demonstrate awareness of global, historical, and institutional forces.	BL-2	None

Course Name **Environmental Economics**
Course Code **EM3308**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To Develop the ability to explain Link between economy and environment, Scope of Discipline, Public goods, externalities, Market failure, Pareto optimality	BL-2	None
CO2	To Develop the ability to explain Price rationing charges and subsidies, Liability rule: non- compliance fees bonds and deposits refund, Quantity rationing: marketable permits .	BL-2	None

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CO3	To understand the concept Introduction, valuation of non-markets goods and services- Theory and Practice, Direct methods of valuation, Indirect methods of valuation	BL-3	None
CO4	To understand Pollution control (the efficient level of environmental pollution, taxes, tradeable permits, command-and-control)Natural resource use	BL-3	None
CO5	To Demonstrate Possible sustainability rules, Indicators of sustainability, The Common-Perrings model of sustainable development	BL-2	None

Course Name **Communication and professional Skills-III**
Course Code **VP3301**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	After the course the students will be able to write/understand and create sentences in English of all tenses, Students will heighten their awareness of correct usage of English grammar in writing and speaking and will be able to improve their speaking ability in English both in terms of fluency and comprehensibility.	BL-2	None
CO2	Students will be able to take part in daily routine conversation in English.	BL-2	None
CO3	Students will be able to understand and partially be groomed in corporate etiquettes and culture	BL-2	None
CO4	This course will aid the students to learn new vocabulary words, use them correctly in a sentence while speaking and writing, , and understand their meaning in the text	BL-2	None
CO5	The students will learn to use strategies to listen actively, will be able to distinguish more important ideas from less important ones and will participate in the discussions.	BL-2	None

Course Name **Banking Law**
Course Code **LW5401**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand and identify in Conversant with banking law's historic development and how it shaped today's bank regulatory regime.	BL-2	Em
CO2	They will Familiar with and able to navigate the various overlapping legal and regulatory regimes applying to banks and bank holding companies.	BL-2	Em
CO3	They are able to Know the root causes of banking fraud and the regulatory framework which has evolved to address this risk along with technical development.	BL-2	Em
CO4	They are able to express opinions about banking in written and oral form, based on the basic knowledge and skills acquired and To elucidate the broad functions of banks.	BL-3	Em
CO5	Students able to apply and learn the experiential knowledge of the practice relating to Negotiable instrument and banking law	BL-3	Em

Course Name **Family Law-II (Muslim Law)**
Course Code **LW5402**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand and Shall be able to apply legal provisions relating to marriage	BL-2	Em
CO2	They will be able to apply legal provisions relating to Divorce and maintenance.	BL-3	Em
CO3	They are able to get a deep understanding of gift given in Muslim law and apply laws related to them.	BL-2	Em

CO4	They are able to get a deep understanding of will give in Muslim law and apply laws related to them.	BL-3	Em
CO5	They are able get a deep understanding of properties in a family and how the partition executed.	BL-3	Em

Course Name **Intellectual Property Rights**
Course Code **LW5403**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand with basics of intellectual property rights with special reference to Indian law and International convention practice.	BL-2	Em
CO2	They will understand with basics of intellectual property rights with special reference to Indian law and International convention practice.	BL-2	Em
CO3	They will be able to develop a legal prospective regarding The Trademarks (The Trademarks Act, 1999).	BL-3	Em
CO4	They will be able to develop a legal prospective regarding The Copyrights (Indian Copyright Act, 1957).	BL-3	Em
CO5	They are able get an understanding about various new technologies and their legal and political aspects along with the regulations.	BL-2	Em

Course Name **Indian Social Problem**
Course Code **LW5404**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the need to study social problem in Indian society.	BL-2	None
CO2	Understand the development related problems in Indian society.	BL-2	None

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CO3	Understand the different family problems, there cause and impact.	BL-2	None
CO4	Understand the problem, causes and impact of Communalism.	BL-2	None
CO5	Understand the need of Social welfare.	BL-2	None

Course Name **Understanding Psychological Disorders**
Course Code **PS3407**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Learners will be able to better understand Abnormal behaviour through knowing different models and also know the importance of assessment, diagnosis in clinical settings	BL-2	None
CO2	Learners will know about anxiety and stress related and their a etiology, prevalence and treatments	BL-2	None
CO3	Learners will know about mood disorders and disorders of sexual variants and their a etiology, prevalence and treatments	BL-2	None
CO4	Learners will know about anxiety and somatic and dissociative disorders and their aetiology, prevalence and treatments	BL-2	None
CO5	Learners will know about Schizophrenia spectrum and Substance abuse disorders and their aetiology, prevalence and treatments	BL-2	None

Course Name **Industrial Economics**
Course Code **EM3403**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be able to learn about the nature & significance of industrial economics.	BL-2	None
CO2	Summarizing the concept of Microeconomics such as demand, supply & price.	BL-2	None
CO3	To understand about the Business cycles, Business Fluctuations and Theory of business cycles.	BL-3	None
CO4	To learn the concept of Macroeconomics such as National Income, inflation, deflation, etc.	BL-2	None
CO5	Summarizing the role of Banks and learn about the money and its functions.	BL-2	None

Course Name **Labor Economics**
Course Code **EM3407**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about Choice between Consumption and Leisure; Incorporating Household Production and Decisions, Labor Demand Function, Competitive Equilibrium.	BL-2	None
CO2	Summarizing the concept of Theory of Human Capital, Education as a Signalling Device, Returns to Education, Policies to improve education attainment, Applications	BL-2	None
CO3	To understand about the Wage and Income inequality, Race/ Ethnicity & gender inequality, Theories of Discrimination, Measuring Discrimination, Affirmative Action.	BL-3	None
CO4	To learn the concept of Evolution of unions and collective bargaining. Recent union membership trends and determinants, Union impact on wages and benefits	BL-2	None
CO5	Summarizing the role of Determinants of labour mobility and migration. Offshoring- Onshoring trends. SDG and labour market indicators: some statistics.	BL-2	None

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Course Name **Computational Skills (MS Office)**
Course Code **VP3402**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will have a fundamental understanding of the Word environment and the ability to complete tasks independently.	BL-2	None
CO2	They will demonstrate the correct application of the principle features of MS Word.	BL-2	None
CO3	Document examples include professional-looking reports, multi-column newsletters, résumés, and business correspondence.	BL-2	None
CO4	Students are able to done various function of MS office Word.	BL-2	None
CO5	Students are able to understand the significance of MS office Word.	BL-2	None

Course Name **Constitutional Law -I**
Course Code **LW5501**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understanding the Constitution and its values and to protect and nurture the ideals of the framers of the Constitution.	BL-2	Em
CO2	Application and Understanding the role of the state in protecting the rights of the citizens. Application of the relevant laws in ensuring compliance of the constitutional values by the state machinery.	BL-3	Em

CO3	Understand about the various Fundamental Rights and Ensuring maintenance of law and order by the authorities.	BL-2	Em
CO4	Applying the concept from the knowledge gained in enforcing the Fundamental Rights Developing competency in challenging the state before the judiciary for the violating the core values of the Constitution.	BL-3	Em
CO5	Understand about the various well equipped Directive Principles of State Policy and Fundamental Duties in the good governance of the country.	BL-2	Em

Course Name **Law of Crimes-I(I.P.C)**
Course Code **LW5502**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand Introduction Definition, nature, meaning of crime, Theories of crime, Relationship of crime and society, Crime Vs. Morality & Ethics, Development of Criminal Law (Hindu, Mohammadan , & British Society) Essentials of crime Actus Reus, Mens Rea, Stages of crime, Parties of Crime.	BL-2	Em
CO2	They will understand Kinds of Punishment, Important Definitions of Criminal Liability ,Abetment, Criminal Conspiracy , General Exceptions to Crime	BL-2	Em
CO3	They will be able to understand and illustrate in details about Homicide, Manslaughter, Hurt, Wrongful Restrain and Confinement, Criminal Force & Assault, Kidnapping, Abduction, Slavery & Forced Labor, Sexual offences.	BL-3	Em
CO4	They will able to understand definitions and analyze when these crimes - Theft, Extortion, Robbery& Dacoit, Criminal Misappropriation of Property, Criminal Breach of Trust, Receiving Stolen Property, Cheating, and Fraudulent Deeds & Disposition of Property, Mischief,	BL-3	Em

CO5	They will understand and analyze when Waging, attempting or conspiring to wage, War against government ,Sedition, Harboring state Prisoner, Unlawful Assembly, Rioting, Affray, Promoting Enmity between Groups takes place in a country.	BL-3	Em

Course Name **Labour and Industrial Law – I**
Course Code **LW5503**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand: about industry, and different industrial dispute, labour laws, Trade Union laws, registration, rights privilege and liabilities of a registered trade union. Penalties procedure & collective bargaining of trade related disputes.	BL-2	Em
CO2	They will understand workman. Strikes and lockouts in industrial dispute, workman, strike, lay –off, retrenchment, provisions of closer, compensation theory, unfair labour practice, penalties.	BL-2	Em
CO3	They are able to understand and interpret about Factories Act and its relevant definitions, provisions of hazardous process, working hour and employment of youth, adult & women, Annual welfare of workers leave with wages, special provisions, penalties and procedures.	BL-3	Em
CO4	They will able to understand and practice how Workmen's Compensation Act, 1923, its definitions. Workmen's compensation, procedure for determination of compensation, commissioners etc. features of the minimum wages act,1948, definition, Procedure for fixation or revision of minimum wages, authorities and their powers, claims etc.	BL-3	Em

CO5	They will understand apply the concept of The Industrial Disputes Act, 1947, section 2 (j), ,section 2 (k), Due control and super-vision test, Predominant nature of duty test, The Industrial Dispute Act, 1947, section 2 (s), 'Strike '&'Lock out'- The Industrial Disputes Act – Sections 2(q), 2(l), 2(n), 10 (3), 10 A (3A), 22-28, The Essential Services Maintenance Act, 1981, 'Lay off' 'Retrenchment' & 'Closure' at the	BL-3	Em

Course Name **Health Law**
Course Code **LW5504**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to gain elementary understanding of the scope and purpose of health law.	BL-2	Em
CO2	Students will be able to know the various organization of health law and to develop an understanding of basic concepts of health law and duties and liabilities of hospital.	BL-2	Em
CO3	Students will be able to understand the meaning and value of medical jurisprudence from the point of view of basic concepts of law and legal system.	BL-2	Em
CO4	Student will be able to understand the legal aspects of health law.	BL-2	Em
CO5	Students will be able to apply basic knowledge of liability of doctor.	BL-3	Em

Course Name **Land Law including Tenure and Land Reforms**
Course Code **LW5515**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be able to gain elementary understanding of the scope and purpose of land law.	BL-2	Em
CO2	Students will be able to know the various land reforms in India and to develop an understanding of basic concepts of land law.	BL-2	Em
CO3	Students will be able to understand about lease surrender of land by land management committee from the point of view of basic concepts of land law.	BL-2	Em
CO4	Students will be able To gain skills and acquire knowledge Of UP land revenue act 1901.	BL-3	Em
CO5	Students will be able to apply basic knowledge of fundamental concepts of land acquisition act and Indian registration Act	BL-3	Em

Course Name **Bankruptcy and Insolvency**
Course Code **LW5506**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand the history and evolution of IBC and present ecosystem of insolvency in India.	BL-2	Em
CO2	They will understand the procedure for commencement of CIRP, role of Financial creditor and Operational Creditor in the initiation of insolvency Proceedings.	BL-2	Em
CO3	They will be able to analyse the role of moratorium in protecting the interests of different stakeholders during CIRP. They will also understand the role of IRP in conducting CIRP	BL-4	Em
CO4	They will be able to remember and understand the composition, powers and duties of COC. They will also understand the role of RP in conducting CIRP.	BL-2	Em
CO5	They will be able to understand and apply the liquidation process and distribution of assets upon completion of liquidation and dissolution.	BL-3	Em

Course Name **Social Media and Digital Transformation**
Course Code **VP3505**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Able To Understand The Social Media & Their Environment.	BL-2	Em
CO2	Able To Understand The Discourse of Social Media Platforms & Safety Guidelines when Communicating on Social Media.	BL-2	Em
CO3	Able To Understand The New Media Challenges.	BL-2	Em
CO4	Able To Understand The Digital Transformation.	BL-2	Em
CO5	Able To Understand The New Media Discourse Through Practical Work.	BL-2	Em

Course Name **Telecommunication Law**
Course Code **LW5525**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the legal framework for telecommunications in India	BL-2	None
CO2	To critically analyse the regulatory structure and various regulatory agencies in the telecommunication sector.	BL-4	s
CO3	To understand the legal issues involved in the broadcasting sector	BL-2	None
CO4	develop an awareness of the legal and policy developments in the sector in Australia and world wide	BL-2	s
CO5	Understand the concepts and principles underlying relevant legislation and case law in the area of telecommunications law	BL-2	None

Course Name **Women and Law**

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Course Code **LW5535**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Provide students with an understanding of the legal environment and culture in which the rights of women and men developed.	BL-2	None
CO2	Students will understand cognitive skills that will allow them to become more integrated and well-rounded individuals by examining particular social and cultural issues from different perspectives.	BL-2	s
CO3	Students will understand the diversity and multiplicity of cultural forces that shape the world through the study of gender and sexuality, as well as race and class, with special focus on the contributions of and differences between women and men.	BL-2	None
CO4	Apply those perspectives to real-world situations and explain the deleterious impact and the privileges sustained by sexism, as well as homophobia, in areas such as legal rights, home life and work life through analysis both of court decisions and current events.	BL-2	s
CO5	Different approaches to interpreting how women have been viewed and treated in the legal context, and then learn to analyze case law and legislation using those different theoretical frameworks.	BL-2	None

Course Name **Constitutional Law – II**
Course Code **LW5601**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Understand about the distribution of legislative, administrative and financial powers between the center and the states	BL-2	Em
CO2	Understanding the functions of the Supreme Court and the High Courts as the guarantor and protector of the Constitution.	BL-2	Em
CO3	Understanding the federal structure of the government and to approach the judiciary when there is transgression of power by the States	BL-2	Em
CO4	Developing competency in challenging the State for its action and inaction in upholding the principles of the Constitution.	BL-3	Em
CO5	The student gets acquainted and develops competency in approaching the judiciary with the help various judgments and case laws that helped in developing the constitutional jurisprudence in India.	BL-3	Em

Course Name **Law of Crimes-II (Cr.P.C)**
Course Code **LW5602**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Fundamental concept regarding the criminal procedure code of India.	BL-2	Em
CO2	Understand the concept of what is adjective law and substantive law.	BL-2	Em
CO3	To be confident in delving into various procedural intricacies in solving and defending in various criminal courts.	BL-2	Em
CO4	The students will develop and analytical skill in appreciating the veracity of a criminal investigation, arguing regarding the legal feasibility of a criminal case and which forum of criminal justice system is to preferred and at which stage.	BL-3	Em
CO5	That the students will be skill fully handling major criminal cases and in their future prospects of being judges, lawyers or any legal luminary, the skill gained will be the treasure.	BL-3	Em

Course Name **Labour And Industrial Law II**

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Course Code **LW5603**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Ability to understand the importance of labour law to ensure social welfare of workers.	BL-2	Em
CO2	Ability to understand how minimum wage protects workers from exploitation	BL-2	Em
CO3	Ability to understand how Child labor laws are designed to provide overall protection and safe working conditions for minors	BL-2	Em
CO4	Understanding how these laws help the employees to improve their social status i.e. material and morale of the workers by providing adequate wages	BL-2	Em
CO5	Understanding how minimum wage, which protects workers from exploitation and provides employers with a measure of minimum compensation that can help them determine appropriate wages for labor with different skill sets and levels of experience	BL-2	Em

Course Name **Corporate Governance**
Course Code **LW5604**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students' acquaintance with principles of Corporate Governance and understanding its importance for companies' performance.	BL-2	Em
CO2	Acquire the knowledge of basic functions of CG, key financial and non-financial stakeholders, the role of financial and non-financial institutions in a company's governance, key concepts of CG.	BL-2	Em

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CO3	Acquire the ability to analyse principles of decision- making, to determine the key interests of major stakeholders, to analyse the system of CG and acquire the skills of matching CG decisions and a company's strategy, alongside taking ethical and reasonable, data-	BL-4	Em
CO4	Summarizes recent scandals and abuses and the regulatory reaction. Identify the other drivers of corporate governance, such as capital markets, shareholders and rating agencies.	BL-2	Em
CO5	Identify issues usually addressed by corporate governance structure.	BL-2	Em

Course Name **Interpretation of Statute**
Course Code **LW5615**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students learn how to read and understand the statutes when they have ambiguous words.	BL-2	Em
CO2	Students learn how to decipher the correct meaning when there are Complexities in the statutes. Because our actions are governed by the enacted statutes	BL-4	Em
CO3	Students can fill the gaps in rules because society changes from time to time and there may be new developments happening in a society that is not taken into consideration, this lacks the predictability of the future event	BL-3	Em
CO4	The students by leaning interpretation of statutes will be able to determine the intention of the legislature conveyed expressly or impliedly in the language used.	BL-2	Em
CO5	A Statute is a formal written enactment of a legislative authority that governs a state or country as a whole. A learner can become a preserver of peace by learning it.	BL-2	Em

Course Name **Investment and Competition Law**

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Course Code **LW5606**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students learn Evolution of Securities and Investment Laws in India Concept of Securities and Kinds of Securities Regulatory Framework to Govern Securities in India	BL-2	Em
CO2	Students learn Role of Banks to Issue Securities Changing Functions of Banks from Direct Lending to Modern System of Investment Banking. Securitization and Reconstruction of Financial Assets	BL-2	Em
CO3	Students understand Role of the Foreign Exchange Management Act, 1999 to Regulate Foreign Trade - Difference from FERA, Administration of Exchange Control, Adjudicatory Powers	BL-2	Em
CO4	The students understand the evolution of Competition Law in India, Difference from the MRTP Act Anti- Competitive Agreements, Vertical and Horizontal Agreements, Predatory Pricing , Abuse of Dominance	BL-2	Em
CO5	The students understand Combinations and its Regulations , Powers and Functions of Competition Commission of India, Appellate Authorities, Competition Advocacy, Brief concept of the Development of Competition Laws in USA and UK	BL-2	Em

Course Name **Computer Aided Law Practices**
Course Code **VP3607**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Evaluate the law in relation to intellectual property, Internet content, e-Business and e-Governance.	BL-2	Em

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CO2	Critically analyse the law in relation intellectual property, the regulation of Internet content, e-Business and e-Governance, and make suggestions for reform.	BL-2	Em
CO3	Developed research skills and knowledge of technical and legal IT resources in preparation for classes.	BL-2	Em
CO4	Developed the ability to critically review national, EU and international IT law policy	BL-2	Em
CO5	Developed competence in the use of key online and offline IT legal resources.	BL-2	Em

Course Name **Criminology**
Course Code **LW5625**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand definition of nature and history of criminology, techniques of studying criminal behavior...	BL-2	Em
CO2	Students will be able to analyze of crime- biological, sociological and financial crime.	BL-3	Em
CO3	Students will be able to understand about specific offender group. Juvenile delinquency, substantive group. Terrorism.	BL-2	Em
CO4	Students will be able to analyze. Special offences, crime against women, homicide.	BL-3	Em
CO5	Students will be able to understand how to rehabilitee in family and society. Role of law in society, role of voluntary agencies to rehabilitee criminals.	BL-2	Em

Course Name **International Commercial Law**
Course Code **LW5635**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand definition of nature international law, aims and objects, importance and role of international law…	BL-2	Em
CO2	Students will be able to understand about international sale contract .formation and breach of contract, Doctrine of Frustration about damage caused to the parties.	BL-2	Em
CO3	Students will be able to understand carriage and goods, Unimodal and Multimodal Transportation of Goods .Documents of Carriage of Goods by Sea. Bills of Lading: Kinds, Nature, Features About INCOTERMS 2010	BL-2	Em
CO4	Students will be able to analyze. International payments, methods of payments, uniform customs practice. Types and parties to letter of credit.	BL-3	Em
CO5	Students will be able to understand arbitration, mediation, conciliation, recognition and enforcement and investment dispute resolution.	BL-2	Em

Course Name **Law of Taxation**
Course Code **LW5701**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students are able to understand information about the history and development of taxation laws in our country.	BL-2	Em
CO2	Students apply in carrying out professional life based on the Course and Provide updates about the new development in tax regime.	BL-3	Em

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CO3	Students are able to Locate the target to avoid the tax, availing the loopholes of the laws and Increases the skill of safeguarding individual as well as country's interest	BL-2	Em
CO4	Students are able to understand contribution of the economic development of the country in general and also provides safeguard to the taxpayers.	BL-2	Em
CO5	Students are able to understand the powers of the government to impose taxes under the Constitutional Provisions also Provide information about different types of incomes that are Course matter of the Course.	BL-2	Em

Course Name **Evidence Law**
Course Code **LW5702**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Basic concept regarding the evidence as to its fact in issue and relevancy of facts and applicability in various branches of law	BL-2	None
CO2	The concept of developing of examination of witness and who are competent to testify.	BL-3	None
CO3	The art of cross examination and application of law of evidence to the real facts.	BL-3	None
CO4	That an analytical skill for weighing the evidence in relation to an alleged facts.	BL-2	None
CO5	That in handling of real problems and solving any given situation by developing a judicious mind.	BL-3	None

Course Name **Drafting, Pleading and Conveyance**
Course Code **LW5703**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Prepare legal instruments such as constitutions, statutes, regulations, ordinances, contracts, wills, conveyances, indentures, trusts and leases, etc.	BL-3	None
CO2	Collect, consolidate and co-ordinate the facts in the form of a document.	BL-2	None
CO3	Facilitate in applying law points in the light of facts in a systematized sequence.	BL-3	None
CO4	Facilitate in learning the drafting of important legal documents.	BL-3	None
CO5	Facilitate and gain the knowledge of various types of petitions which are part and parcel of pleading.	BL-2	None

Course Name **International Trade Economics**
Course Code **LW5704**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students are able to understand International Trade Theories: Ricardian Theory, Smith Theory, Hechscher- Ohlim Model; India's Trade policies; Important Definitions and Terms used in International Trade	BL-2	Em
CO2	Students are able to understand Most Favoured Nation, Principle of National Treatment, Foreign Direct Investment, Import substitution; Multilateral Trading System	BL-2	Em
CO3	Students are able to understand GATT-Its salient features; WTO- Need, Marrakesh Agreement; The WTO: History, Structure and Future; The WTO and Developing Countries; WTO Dispute Settlement; WTO	BL-2	Em

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CO4	Students are able to understand International Trade Agreements: Bilateral Trade Agreements, Free Trade Agreements, Regional Trade Agreements; Bilateral Investment Treaties	BL-2	Em
CO5	Students are able to understand U.N. Convention on E- Commerce; International commodity agreements; Unidroit Principles of International Commercial Contracts; Payment Mechanisms and Guarantees- International Transfer	BL-2	Em

Course Name **Offence against Child and Juvenile Offence**
Course Code **LW5706**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Work efficiently and with critical engagement with various concepts of Criminal law in relation to child protection , having due regard to the practical implementation of the principles in actual cases;	BL-2	Em
CO2	Develop coherent, comprehensive and persuasive arguments from an adversarial point of view;	BL-2	Em
CO3	Understand the various dimensions of the various aspects of crime and criminal behavior and the implementation of the law through Judicial interpretation, etc;	BL-2	Em
CO4	Demonstrate a thorough and contextual knowledge of various offences under the I.P.C, JJ Act 2015 and the various leading cases, particularly in its application to real life legal scenario;	BL-3	Em
CO5	Demonstrate a high level of skill on academic and professional legal writing.	BL-3	Em

Course Name **Local Self Government including Panchayat Administration**
Course Code **LW5735**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To Develop a understanding of local leadership and Nature, Characteristics of Local Self Government.	BL-2	None
CO2	To Exhibit the evolution of Local self-government and efforts for rural and urban development.	BL-1	s
CO3	To understand Composition, Powers and Functions of Panchayati Raj Institutions with Modern Trends and Problems in Local Government in India	BL-2	None
CO4	To understand the structure of urban local Self Government and their status before and after the independence.	BL-2	s
CO5	To understand Composition, Powers and Functions of Urban Local Bodies, Municipal Corporation, Municipal Council, Nagar Panchayati	BL-2	None

Course Name **Employability Skills GDPI**
Course Code **VP3601**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to create their CVs & thus highlighting their achievements & qualifications.	BL-2	None
CO2	Students should be able to present themselves effectively in terms of (Reading, Speaking & Writing).	BL-1	s
CO3	Students should be able to develop their public speaking skills.	BL-2	None
CO4	Students should be able to succeed in a professional group discussion.	BL-2	s

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CO5	Students should be able to learn how to crack the interviews by enhancing verbal & non-verbal communication.	BL-2	None

Course Name **Election law**
Course Code **LW5715**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand definition election and democratic process.	BL-2	Em
CO2	Students will be able to an understand of the representation of people Act, 1950.	BL-2	Em
CO3	Students will be able to understand conduct of election rule 1961.	BL-2	Em
CO4	Students will be able to analyze. Special election commission.	BL-3	Em
CO5	Students will be able to understand the financing of election campaign and different issues.	BL-2	Em

Course Name **International Humanitarian Law**
Course Code **LW5725**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about the humanitarian law	BL-2	None
CO2	Summarizing the concept of geneva convention system	BL-3	None
CO3	To understand about the armed conflicts among the nations.	BL-2	None
CO4	To learn the concept of enforcement machinery of international humanitarian law	BL-2	None

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CO5	Summarizing the role of international human rights organizations	BL-2	None

Course Name **Code of Civil Procedure I and Limitation Act**
Course Code **LW5801**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand and practically apply the basic principles of procedural law in civil matters	BL-2	None
CO2	To understand the concept of joinder misjoinder and non joinder of parties while framing suits	BL-2	None
CO3	To be able to apply the principle of Resjudicata	BL-3	None
CO4	To understand the modes of delivery of summons and consequences of non-appearance of parties	BL-2	None
CO5	To understand the difference to differentiate between a decree and order and judgment between a decree and order and judgment	BL-2	None

Course Name **Property Law**
Course Code **LW5802**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand the need of having an inclusive law on property.	BL-2	None
CO2	To understand transfers by act of parties and operation of law.	BL-2	None
CO3	To examine the difference between Movable and Immovabl	BL-3	None
CO4	To study the general principles of sale and mortgage	BL-2	None

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CO5	To gain the knowledge of the actionable claims and liability of the transferee.	BL-2	None

Course Name **Alternative Dispute Resolution**
Course Code **LW5804**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Concept of Alternative Dispute Resolution Knowledge about the Justice Delivery System both in National as well as International Level	BL-2	Em
CO2	Public Speaking and organizing legal aids helping people know about the ADR procedure	BL-2	Em
CO3	Applying the procedures relating to ADR in the daily lives of the students. .	BL-3	Em
CO4	Student will come to know about the International commercial arbitration.	BL-2	Em
CO5	Students will get knowledge of treaties	BL-2	Em

Course Name **Company Law**
Course Code **LW5803**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To Understand Company Law in relation to the necessary legal framework to be adopted in the day to day functions of the company.	BL-2	Em
CO2	To understand the concepts better and keep updated with national Laws related to formation of Company	BL-2	Em
CO3	To acquire application oriented knowledge and develop understanding about regulatory framework of Company Law.	BL-3	Em

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CO4	To cover various facets of Company Law such as Meeting Board and its Powers, Contents of prospectus, powers of directors, duties of directors.	BL-2	s
CO5	To understand the process of Meetings & Winding Up of Company and Efficiency in identifying factual and legal issues on the latest developments taking place in this area.	BL-2	None

Course Name **Environment law**
Course Code **LW5806**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about the nature & significance of environment law	BL-2	None
CO2	Develop an understanding of the regulatory and judicial frameworks implementing and enforcing these laws	BL-2	None
CO3	Understand that environmental law cuts across and within legal systems, fields of law, vested interests and disciplinary boundaries	BL-2	None
CO4	Develop understanding of the overall environmental legal regime of the country as well as its international obligations.	BL-2	None
CO5	Summarizing the role of different institutions to protect the environment	BL-3	None

Course Name **Mediation law**
Course Code **LW5815**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about the nature & significance of arbitration act.	BL-2	None

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CO2	Learners are imparted in-depth knowledge of the basic concept of ADR as well as its various mechanisms.	BL-2	None
CO3	Students are sensitized towards the benefits that ADR mechanism offers over litigation...	BL-3	None
CO4	Students attain an understanding of the practical nuances of the course through simulation exercises and visits to ADR centers	BL-2	None
CO5	Students practice independently in the field of Arbitration, Conciliation and Mediation and their skills and services can also be utilized by the courts while implementing Section 89 of CPC.	BL-2	None

Course Name **Data Analytics**
Course Code **VP3801**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To be able to perform a wide range of data management tasks in SPSS application	BL-2	Em
CO2	Understand the basic workings of SPSS, and perform basic statistical analyses.	BL-2	Em
CO3	To perform database management tasks, descriptive statistics and graphics, and basic inferential statistics for comparisons and correlations.	BL-4	Em
CO4	To perform data checking and create simple tables and charts.	BL-2	Em
CO5	To perform advanced analysis in SPSS	BL-4	Em

Course Name **Socio Economic Offences**
Course Code **LW5825**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about the nature & significance of socio economic offences.	BL-2	None
CO2	Summarizing the concept of Narcotic Drugs and Psychotropic Substances Act.	BL-2	None
CO3	To understand about the food and safety standard act.	BL-2	None
CO4	To learn the concept of prevention of corruption act, 1988	BL-2	None
CO5	To understand and gain the knowledge about money laundering	BL-2	None

Course Name **International Economic Law**
Course Code **LW5835**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to gain knowledge of general introduction of international economic law	BL-2	None
CO2	Summarizing the Courses which come under it.	BL-2	None
CO3	To understand about the rights of the states dealing in economic law.	BL-2	None
CO4	To learn the concept of settlements of disputes related in international economic law.	BL-2	None
CO5	Student will be able to understand and explain the fundamental principles of international economic law	BL-2	None

Course Name **Code of criminal procedure II and Specific Relief Act**
Course Code **LW5901**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand and practically apply the basic principles of procedural law in civil matters.	BL-2	None
CO2	To comprehend and get an insight into various aspects of execution of decrees.	BL-2	None
CO3	To understand the concept of delivery of property and objection and claims	BL-2	None
CO4	To know the concept of appeal and and powers of court	BL-2	None
CO5	Summarizing the role specific relief act	BL-2	None

Course Name **Moot Court Exercise**
Course Code **LW5902**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Enhance analytical as well as critical thinking of Students over interesting and contemporary legal issues,	BL-2	Em
CO2	Demonstrate a thorough and contextual knowledge of the various laws particularly in its application to real and hypothetical legal problems.	BL-3	Em
CO3	Acquire skill in advocacy, legal research and writing skills	BL-2	Em

Course Name **Professional Ethics & Professional Accounting System**
Course Code **LW5903**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn and understand the aims and objective of professional ethics, code of legal ethics, professional accounting system, relationship between bar and bench,	BL-2	None
CO2	Understanding the concept of Contempt of Court Act 1971.	BL-2	None
CO3	To analyze about. Bar Council and Ethics Bar Council of India Rules on Standards of Professional Conduct and Etiquette.	BL-3	None
CO4	Students will analyze different cases in Practical paper I.	BL-3	None
CO5	Students will analyze different cases in Practical paper II	BL-3	None

Course Name **Maritime Law**
Course Code **LW5904**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To Understand Company Law in relation to the necessary legal framework to be adopted in the day to day functions of the company.	BL-2	Emp
CO2	To understand and Identify the main legal framework governing maritime commerce and affairs.	BL-2	Emp
CO3	To understand and Identify the main legal framework governing maritime commerce and affairs.	BL-2	Emp
CO4	Demonstrate knowledge and understanding some of the key issues in legislation relayed to maritime laws.	BL-2	s

CO5	Have thorough knowledge of the rules and legal framework of international commercial affairs related to shipping and advanced knowledge of the rules and framework in this field of law.	BL-2	None

Course Name **Private International Law**
Course Code **LW5906**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand nature and development of International Law, its sources, history, development, and relationship of International law.	BL-2	Em
CO2	Students will be able to analyze about State its recognition, succession. Law of sec & air, different treaties, formation, classification, ratification and termination and binding forces.	BL-3	Em
CO3	Students will be able to understand about how to do settlement of dispute in international law. Arm conflicts, insurgency, Four Geneva covenants of 1949 including its Additional Protocol of 1977, Enemy character. Belligerent occupation. Prize court, role of ICRC, terrorism, international humanitarian law.	BL-2	Em
CO4	Students will be able to analyze about The law of Neutrality	BL-3	Em
CO5	. Students will be able to understand about different international institutions, League of Nation, UN organization, international court of justice, international criminal law.	BL-2	Em

Course Name **Law of International Organization**
Course Code **LW5915**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand nature and development of International Law, its sources, history, development, and relationship of International law.	BL-2	Em
CO2	Students will be able to analyze about State its recognition, succession. Law of sec & air, different treaties, formation, classification, ratification and termination and binding forces.	BL-3	Em
CO3	Students will be able to understand about how to do settlement of dispute in international law. Arm conflicts, insurgency, Four Geneva covenants of 1949 including its Additional Protocol of 1977, Enemy character. Belligerent occupation. Prize court, role of ICRC, terrorism, international humanitarian law.	BL-2	Em
CO4	Students will be able to analyze about The law of Neutrality	BL-3	Em
CO5	. Students will be able to understand about different international institutions, League of Nation, UN organization, international court of justice, international criminal law.	BL-2	Em

Course Name **International Refugee Law**
Course Code **LW5925**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand nature and development of refugee Law, its sources, history, development, relationship of International law.	BL-2	Em

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CO2	Students will be able to analyze about State its recognition, succession. Law of sec & air, different treaties, formation, classification, ratification and termination and binding forces.	BL-3	Em
CO3	Students will be able to understand Burden Sharing. Extradition of Refugee Voluntary Repatriation, Naturalization Re-settlement in Third Country	BL-2	Em
CO4	Students will be able to understand Statute of the Office of the United Nations High Commissioner for Refugees (UNHCR), 1950 2. Role of UNHCR	BL-2	Em
CO5	. Students will be able to understand Registration of Foreigners Act, 1939, the Foreigners Act, 1946, and the Foreigners Order, 1948 Role of National Human Rights Commission (NHRC) Judicial decisions interpreting rights of refugees in India India's Position regarding	BL-2	Em

Course Name **Critical Thinking and Personality Development**

Course Code **VP3901**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	On the completion of course the Students will be able to write, understand, analyze and create sentences in professional language (English). Students' horizon will be expanded with the correct usage of Grammar in writing and speaking, and will be able to improvise their speaking ability.	BL-2	Em
CO2	Students will be able to take part in daily routine conversation in English	BL-2	Em
CO3	Students will be able to understand and partially be groomed in corporate etiquettes and culture	BL-2	Em

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CO4	This course will aid the students to learn words and form strong vocabulary, use them correctly in a sentence while speaking and writing. Moreover, understand their meaning in the text	BL-2	Em
CO5	The Students will learn to use strategies to listen actively and able to distinguish more important ideas from less important ones. Implement them while participating in the discussions. Henceforth, It yields the improvement in understanding, analyzing, creating and implementing the learning into real world encounter,	BL-2	Em

Course Name **Security Law**
Course Code **LW5935**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the role of SEBI in regulating the Securities market	BL-2	None
CO2	To understand the role of SEBI in preventing the manipulative practices in the market	BL-2	None
CO3	To understand Powers of Central Government; Delegation of Powers; Appeal to The Central Government; Bar of Jurisdiction; Public Servants	BL-2	None
CO4	To analyze the kinds of offences and role of Company Secretary	BL-4	None
CO5	To understand Public Issue and Listing of Securities; Conditions for Listing and Delisting of Securities; Offences; Offences By Companies; Certain Offences To Be Cognizable; Cognizance Of Offences By Courts	BL-2	None

Course Name **Administrative Law**
Course Code **LW51001**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about the nature & significance of Administrative law.	BL-2	Em
CO2	Summarizing the concept of Delegate Legislation, advantage and disadvantage. USA& UK Delegate legislation.	BL-2	Em
CO3	To understand about the Principles of Natural Justice (Practice and Procedure of Administrative Adjudication.	BL-2	Em
CO4	To learn the concept Judicial Review of Administrative Action – Judicial Remedies. Jurisdiction of Supreme Court Art 226 and High Court 32 of the Constitution of India.	BL-3	Em
CO5	Students will be able to learn about Other Remedial Procedures – P.I.L., Liability of Administration, statutory and Non-statutory Public Undertakings, Constitutional Protection of civil servants etc.	BL-2	Em

Course Name **Public International Law**
Course Code **LW51002**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand nature and development of International Law, its sources, history, development, and relationship of International law.	BL-2	Em
CO2	Students will be able to analyze about State its recognition, succession. Law of sec & air, different treaties, formation, classification, ratification and termination and binding forces.	BL-3	Em

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CO3	Students will be able to understand about how to do settlement of dispute in international law. Arm conflicts, insurgency, Four Geneva covenants of 1949 including its Additional Protocol of 1977, Enemy character. Belligerent occupation. Prize court, role of ICRC, terrorism, international humanitarian law.	BL-2	Em
CO4	Students will be able to analyze about The law of Neutrality	BL-3	Em
CO5	. Students will be able to understand about different international institutions, League of Nation, UN organization, international court of justice, international criminal law.	BL-2	Em

Course Name **Human Rights Law and Practices**
Course Code **LW51003**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about The concept of Human Rights Theoretical foundations of Human Rights	BL-2	Em
CO2	Summarizing the concept of UN and Human Rights - Significance and limitations- International Covenant.	BL-2	Em
CO3	To understand about the Human Rights under the Constitution and Different legislation in Indi	BL-2	Em
CO4	To analyze the concept Enforcement of Human Rights International commissions of Human Rights- Amnesty International- American system and European system- Role of the Judiciary in India- Statutory Commissions- Woman's Commission.	BL-3	Em
CO5	Students will be able to understand about Protection of Human Rights Act,1993- National Human Rights Commission- State Human Rights Commissions- Role of Media- Role of NGO's- Human Rights Education Examination Scheme.	BL-2	Em

Course Name **Penology and Victimology**

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Course Code **LW51034**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand definition of Penology, concept and object of punishment, theories of punishment.	BL-2	Em
CO2	Students will be able to understand about police system, police reform, judicial trends towards police system...	BL-2	Em
CO3	Students will be able to understand about prison reform its administration and understanding. Judicial trend in India and about open prison.	BL-2	Em
CO4	Students will be able to analyze probation of offender and parole, salient feature of Probation of offender Act 1958, Parol system and judicial trend in India.	BL-3	Em
CO5	Students will be able to understand Victimlogy, different victims of crime. Impact of victimization. Compensatory provision under Cr.P.C, Probation of offender Act 1958. Motor Vehicle Act, 1988. Relief to victims – judicial trend. And Victimization and victim welfare fund.	BL-2	Em

Course Name **Comparative Law**
Course Code **LW51024**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the foundational principles of comparative law, undertake (self-directed) legal research intermediate, and evaluate legal information.	BL-2	None

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CO2	Apply comparative law to complex problems/ issues, critique the operation comparative law from a theoretical perspective as part of a team.	BL-3	s
CO3	Structure and sustain concise and cohesive written arguments for a legal and professional audience	BL-2	None
CO4	Analyse the impact of comparative law from comparative and international perspectives, and in the context of social and cultural diversity.	BL-4	s
CO5	Reflect on their abilities to effectively undertake work as a member of a team	BL-2	None

Course Name **Forensic Sciences**
Course Code **LW51014**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students are able to understand definition, nature and scope of Forensic Science; History and Development of Forensic Science	BL-2	None
CO2	Students are able to understand crime scene investigation: Understanding and purpose of Crime scene examination and investigation, physical evidence, its collection, packing and transportation,	BL-2	None
CO3	Students are able to understand Anthropometry, Dactylography, Foot Deformities Prints, Scars,, Tattoo Marks, Occupational Marks, Hand Writing, Clothes Personal Articles, Speech	BL-2	None
CO4	Students are able to understand Death and its Medico-Legal Aspect-Definition, Mode of Death, Sudden Death, Sign of Death, Time since Death, Presumption of Death, Presumption of Survivorship; Medico-Legal aspect of Wounds: Nature of injury, Examination of Injured	BL-2	None

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CO5	Students are able to understand Recent advances in Forensic Science: Narco Analysis, Brain Mapping, DNA finger printing and their admissibility in the Court, Polygraph Test and NHRC guidelines of administration of Polygraph test.	BL-2	None

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Program Nam **(Hons)**

Course Name **Legal Method**

Course Code **LW5101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to gain elementary understanding of the scope and purpose of law.	BL-2	Em
CO2	Students will be able to know the various sources of law and to develop an understanding of basic concepts of law	BL-2	Em
CO3	Students will be able to understand legal studies from the point of view of basic concepts of law and legal system.	BL-2	Em
CO4	Students will be able To garner skills and acquire knowledge required in legal writing and research.	BL-3	s
CO5	Students will be able to apply basic knowledge of fundamental concepts of law.	BL-3	None

Course Name **Law of Contract-I**

Course Code **LW5102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand an advanced and integrated understanding of the legal framework for contract law, including formation, content and interpretation of contracts in Indian law.	BL-2	Em
CO2	They will gain an understanding of fundamental principles of the law of contract and its impact.	BL-2	Em
CO3	They are able to identify and apply the elements of contract law required to create an enforceable contract.	BL-2	Em
CO4	Will be able to apply the required legal principles necessary to discharge a contract.	BL-3	s

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CO5	Identify and apply the remedies available to a party in case of a breach of contract.	BL-4	Em

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Course Name **Legal English and Communication Skills**
Course Code **LW5103**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand, identify, develop and practice essential English speaking skills during their legal studies and in their everyday life.	BL-2	Em
CO2	They will gain the constituents of good oral and written language.	BL-1	Em
CO3	They are able to inculcate amongst student's courtroom language.	BL-3	s
CO4	Will be able to Imbibe among students the intricacies of Client Interviewing.	BL-2	s
CO5	Will be able to Understand methods of Legal Counseling.	BL-2	Em

Course Name **Principles and Practices of Management**
Course Code **BB3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the concept of "rational decision making" and contrast it with prospect theory, bounded rationality, heuristics, and robust decisions	BL-2	None
CO2	To understand the concept of planning.	BL-2	None
CO3	The student will be able to understand the primary functions of management .	BL-2	None
CO4	To apply common organizational structures and their advantages and disadvantages.	BL-3	None
CO5	To apply common organizational structures and their advantages and disadvantages.	BL-3	None

Course Name **Business Economics**
Course Code **BB3103**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the concept of cost nature of production and its relation to business operations	BL-2	None
CO2	To apply marginal analysis to the firm under different market conditions.	BL-2	None
CO3	To analyze the causes and consequences of different market conditions.	BL-4	None
CO4	To integrate the concept of price and output decisions of firms under different market conditions.	BL-2	None
CO5	To analyze demand and supply concepts.	BL-4	None

Course Name **Business Mathematics and Statistics**
Course Code **BB3104**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Learn to solve the problems based on unitary method, time and work, speed, distance and time, integers, exponential system, squares and square roots, cubes and cube roots, matrix, addition of matrix, multiplication of matrix, inverse of matrix and application of matrix in	BL-2	None
CO2	Learn to solve the problems on profit, loss, selling price and cost price, percentage, average and data interpretation using percentage	BL-2	None
CO3	Learn to solve the problems on dispersion, absolute and relative measure of dispersion, range, variance, and standard deviation, coefficient of variation, quartile deviation and coefficient of quartile deviation.	BL-2	None
CO4	Learn to solve the problems based on correlation, positive & negative correlation, Karl Pearson's Coefficient of correlation, regression, Two regression equations, Regression coefficients and properties	BL-3	None

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CO5	Learn concepts and to solving the problems based on Introduction to time series, Objectives of time series, Identification of trend, Components of time series, Variations in time series, Methods of Trend Analysis and Choosing appropriate forecasting model, first order differentiation, Product rule, U/V method, Substitution method, Differentiation of Implicit function	BL-2	None

Course Name **Communicative English**
Course Code **EG3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to discuss the concept of communication skills	BL-2	None
CO2	Students will be able to increase self awareness about English language.	BL-2	None
CO3	Students will be able to develop public speaking abilities.	BL-2	None
CO4	Students will be able to present each and everything in correct manner.	BL-2	None
CO5	Students will be able to discuss the concept of barriers to communication.	BL-2	None

Course Name **Communication and Professional Skill-I**
Course Code **VP3101**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	On the completion of course the Students will be able to write, understand, analyze and create sentences in professional language (English). Students' horizon will be expanded with the correct usage of Grammar in writing and speaking, and will be able to improvise their	BL-2	S
CO2	Students will be able to take part in daily routine conversation in English	BL-2	S

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CO3	Students will be able to understand and partially be groomed in corporate etiquettes and culture	BL-2	S
CO4	This course will aid the students to learn words and form strong vocabulary, use them correctly in a sentence while speaking and writing. Moreover, understand their meaning in the text	BL-2	S
CO5	The Students will learn to use strategies to listen actively and able to distinguish more important ideas from less important ones. Implement them while participating in the discussions. Henceforth, It yields the improvement in understanding, analyzing, creating and implementing the learning into real world	BL-2	S

Course Name **Law of Torts and Consumer Protection**
Course Code **LW5201**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The Students will understand principles of Tortious liability.	BL-2	Em
CO2	They are able to take defences available in an action for torts	BL-2	Em
CO3	Students will have a comprehensive understanding about the Liability under Law of Torts.	BL-2	Em
CO4	They are able to find out specific torts against the individual and property.	BL-2	Em
CO5	Students will be able to apply basic procedures and principles for handling consumer dispute.	BL-3	Em

Course Name **Law of Contract-II**
Course Code **LW5202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	They will understand the context and rationale of specific contracts of Indemnity, Guarantee.	BL-2	Em
CO2	They will understand the context and rationale of specific contracts of Bailment, Pledge.	BL-2	Em
CO3	They are able to apply the principles and doctrines that guide contracts and Exhibit an understanding of the legal concepts involved in such contracts.	BL-3	Em
CO4	Will be able to analyze and Determine what rights and duties parties acquire under Partnership Act.	BL-4	Em
CO5	Know the contract of sale have with our day to day commercial activities and their impact on the social and economic front.	BL-2	Em

Course Name **Marketing Management**
Course Code **BB3202**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	After course completion, the student will be able to understand the nature and importance of marketing	BL-2	Em
CO2	After course completion, the student will be able to analyze and understand the term segmentation. To understand the different types of consumer behavior.	BL-4	Em
CO3	After course completion, the student will be able to analyze the process of PLC. To create different methods related to marketing like positioning, packaging, branding.	BL-4	Em
CO4	After course completion, the student will be able to organize and understand the promotion mix and understand the different methods of distribution.	BL-2	Em
CO5	After course completion, the student will be able to understand the term consumerism.	BL-2	Em

Course Name **Organizational Behavior**
Course Code **BB3204**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student will be able to demonstrate the applicability of the concept of organizational behavior to understand the Behavior of people in the organization	BL-3	None
CO2	The student will be able to demonstrate the applicability of analyzing the complexities associated with management of Individual behavior in the organization	BL-3	None
CO3	The student will be able to understanding the complexities associated with management of the group behavior in the Organization	BL-2	None
CO4	The student will be able to demonstrate how the organizational behavior can integrate in understanding the motivation (why) behind behavior of people in the organization	BL-2	None
CO5	The student will be able to demonstrate different leadership styles and how they can be used in an organization for effective and goal oriented task completion	BL-3	None

Course Name **Business Environment**
Course Code **LW5205**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the basic concept of business Environment.	2	Ent/Emp/S
CO2	Students would recall and relate various concepts like business ethics, ethical dilemmas, corporate culture and ethical climate. They would also be acquainted about development of various acts applicable to business in India	2	Ent/Emp/S
CO3	Students would describe and discuss Corporate Social Responsibility, Corporate Governance and Social Audit.	3	Ent/Emp/S

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CO4	Students would describe and discuss Corporate Social Responsibility, Corporate Governance and Social Audit.	3	Ent/Emp/S
CO5	Students would be acquainted with various strategies of Global Trade. They would also discuss Foreign Trade in India, Foreign Direct Investments and its implications on Indian Industries.	3	Ent/Emp/S

Course Name **Management Information System**
Course Code **BB3206**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student will be able to demonstrate the applicability of the concept of organizational behavior to understand the Behavior of people in the organization	2	Ent/Emp/S
CO2	The student will be able to demonstrate the applicability of analyzing the complexities associated with management of Individual behavior in the organization	2	Ent/Emp/S
CO3	The student will be able to understanding the complexities associated with management of the group behavior in the Organization	3	Ent/Emp/S
CO4	The student will be able to demonstrate how the organizational behavior can integrate in understanding the motivation (why) behind behavior of people in the organization.	3	Ent/Emp/S
CO5	The student will be able to demonstrate different leadership styles and how they can be used in an organization for effective and goal oriented task completion	3	Ent/Emp/S

Course Name **Communication and Professional Skills-II**
Course Code **VP3201**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	After the course the students will be able to write/understand and create sentences in English of all tenses, Students will heighten their awareness of correct usage of English grammar in writing and speaking and will be able to improve their speaking ability in English both in terms of fluency and	BL-2	s
CO2	Students will be able to take part in daily routine conversation in English.	BL-2	s
CO3	Students will be able to understand and partially be groomed in corporate etiquettes and culture	BL-2	s
CO4	This course will aid the students to learn new vocabulary words, use them correctly in a sentence while speaking and writing, , and understand their meaning in the text	BL-3	s
CO5	The students will learn to use strategies to listen actively,will be able to distinguish more important ideas from less important ones and will participate in the discussions.	BL-2	s

Course Name **Disaster Preparedness and Management**
Course Code **CE3102**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They are able to demonstrate an advanced and integrated understanding of the political, social, historical, philosophical, and economic context of law. .	BL-2	None
CO2	They are able to engage in identification, articulation and critical evaluation of legal theory and the implications for policy.	BL-3	None

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CO3	They are able to Understand research complex problems relating to law and legal theory and make reasoned and appropriate choices amongst alternatives.	BL-2	None
CO4	They are able to understand research complex problems relating to law and legal theory and make reasoned and appropriate choices amongst alternatives.	BL-2	None
CO5	Students will be able to apply basic concepts related to ownership, possession and person.	BL-3	None

Course Name **Jurisprudence**
Course Code **LW5301**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They are able to demonstrate an advanced and integrated understanding of the political, social, historical, philosophical, and economic context of law. .	BL-2	None
CO2	They are able to engage in identification, articulation and critical evaluation of legal theory and the implications for policy.	BL-3	None
CO3	They are able to Understand research complex problems relating to law and legal theory and make reasoned and appropriate choices amongst alternatives.	BL-2	None
CO4	They are able to understand research complex problems relating to law and legal theory and make reasoned and appropriate choices amongst alternatives.	BL-2	None
CO5	Students will be able to apply basic concepts related to ownership, possession and person.	BL-3	None

Course Name **Family Law –I (Hindu Law)**
Course Code **LW5302**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	They will understand family law and learn about basic concepts like marriage, divorce, parental custody, domestic abuse and children's rights.	BL-2	Em
CO2	They will understand historical and social contexts that have influenced the modern definition and regulation of families.	BL-2	Em
CO3	They are able to gain skills of thinking, apply, written and verbal presentation of ideas of argument	BL-3	Em
CO4	Will be able to apply and Determine what rights and duties parties acquire under Family Law..	BL-3	Em
CO5	Will be able to apply and Determine what rights and duties parties acquire under Family Law.	BL-3	Em

Course Name **Information Technology law**
Course Code **LW5303**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will be able to understand, explain, distinguish and apply the fundamental legal principles of information technology law covered in the course.	BL-2	Em
CO2	They will be able to apply a range of approaches to written and oral communication, and apply the critical thinking required to bring about solutions to complex legal problems in the area of information technology law.	BL-2	Em
CO3	They are able to demonstrate many ways in which rapidly changing technology can affect, and be affected by, the law, in a way that can assist clients with their planning or legislators with their proposals.	BL-2	Em
CO4	Will be able to apply and determine what rights and duties acquire under Information Technology Law.	BL-3	Em
CO5	Will be able to analyze and determine what rights and duties acquire under Information Technology Law.	BL-4	Em

Course Name **Supply Chain Management**

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Course Code **BB3306**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand some basics concepts of Supply chain and transportation line	2	Ent/Emp/S
CO2	Identify the appropriate methods for manufacturing the products.	3	Ent/Emp/S
CO3	To develop the potential market for the new product	5	Ent/Emp/S
CO4	forcast the demand for product and make inventory planning accordingly	4	Ent/Emp/S
CO5	identify the need of service after sales.	4	Ent/Emp/S

Course Name **: E-Business**
Course Code **BB3310**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The student will familiar with the Nature, scope and system of E-Business	BL-2	None
CO2	The student will remember and explain and analyse the detailed knowledge of E-Business Architecture.	BL-4	None
CO3	The student will ibe capable of knowledge to business processes impacts	BL-2	None
CO4	The student will illustrate the various method of E- Commerce and Security Mechanism	BL-2	None
CO5	The student will illustrate the Payment mechanism of E Commerce and also Growth of Internet	BL-2	None

Course Name **Financial Management**
Course Code **BB3311**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	To understand about the biases of financial management with bird`s eye view	BL-2	None
CO2	To understand and apply the tools of long term decisions making	BL-3	None
CO3	To understand and apply in cost of capital, capiatl structure and leverages	BL-3	None
CO4	To understand about the various models of dividend policy	BL-2	None
CO5	To understand and apply the different segments of working capital management	BL-3	None

Course Name **Human Resource Management**
Course Code **BB3305**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand the basic functions of HRM	BL-2	None
CO2	Students will be able to know about the human resource planning and their impact on organization	BL-2	None
CO3	Students will able to know the application of career panning and methods of training	BL-2	None
CO4	Students will be able to understand the methods of performance appraisal and their impact on employee	BL-2	None
CO5	Students will be able to know the current situation of industrial relation and functioning of trade union	BL-2	None

Course Name **Communication and professional Skills-III**
Course Code **VP3301**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	After the course the students will be able to write/understand and create sentences in English of all tenses, Students will heighten their awareness of correct usage of English grammar in writing and speaking and will be able to improve their speaking ability in English both in terms of fluency and	BL-2	None

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CO2	Students will be able to take part in daily routine conversation in English.	BL-2	None
CO3	Students will be able to understand and partially be groomed in corporate etiquettes and culture	BL-2	None
CO4	This course will aid the students to learn new vocabulary words, use them correctly in a sentence while speaking and writing, , and understand their meaning in the text	BL-2	None
CO5	The students will learn to use strategies to listen actively, will be able to distinguish more important ideas from less important ones and will participate in the discussions.	BL-2	None

Course Name **Banking Law**
Course Code **LW5401**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand and identify in Conversant with banking law's historic development and how it shaped today's bank regulatory regime.	BL-2	Em
CO2	They will Familiar with and able to navigate the various overlapping legal and regulatory regimes applying to banks and bank holding companies.	BL-2	Em
CO3	They are able to Know the root causes of banking fraud and the regulatory framework which has evolved to address this risk along with technical development.	BL-2	Em
CO4	They are able to express opinions about banking in written and oral form, based on the basic knowledge and skills acquired and To elucidate the broad functions of banks.	BL-3	Em
CO5	Students able to apply and learn the experiential knowledge of the practice relating to Negotiable instrument and banking law	BL-3	Em

Course Name **Family Law-II (Muslim Law)**
Course Code **LW5402**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand and Shall be able to apply legal provisions relating to marriage	BL-2	Em
CO2	They will be able to apply legal provisions relating to Divorce and maintenance.	BL-3	Em
CO3	They are able to get a deep understanding of gift given in Muslim law and apply laws related to them.	BL-2	Em
CO4	They are able to get a deep understanding of will given in Muslim law and apply laws related to them.	BL-3	Em
CO5	They are able get a deep understanding of properties in a family and how the partition executed.	BL-3	Em

Course Name **Intellectual Property Rights**
Course Code **LW5403**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand with basics of intellectual property rights with special reference to Indian law and International convention practice.	BL-2	Em
CO2	They will understand with basics of intellectual property rights with special reference to Indian law and International convention practice.	BL-2	Em
CO3	They will be able to develop a legal prospective regarding The Trademarks (The Trademarks Act, 1999).	BL-3	Em
CO4	They will be able to develop a legal prospective regarding The Copyrights (Indian Copyright Act, 1957).	BL-3	Em
CO5	They are able get a understanding about various new technologies and their legal and political aspects along with the regulations.	BL-2	Em

Course Name **Research Methodology**
Course Code **BB3403**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand some basics concepts of research and its methodology	BL-2	None
CO2	Identify appropriate research designs depending upon the objectives of research.	BL-2	None
CO3	To develop a detailed research proposal and summer internship projects.	BL-2	None
CO4	To know how to collect data and evaluate it using different statistical tests.	BL-2	None
CO5	To develop a questionnaire and to identify which test should be applied to which data set.	BL-2	None

Course Name **International Business**
Course Code **BB3404**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the overview, evolution and different approaches of international business.	BL-2	None
CO2	To understand and apply the different theories of international trade	BL-2	None
CO3	To understand the modes of international business and analyze the working of international financial institutions	BL-2	None
CO4	To remember trade blocs and understand the business centers and analyze the benefits	BL-2	None
CO5	To understand about international production and logistics management and evaluation of international business	BL-2	None

Course Name **Business Analytics**
Course Code **BB3406**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To remember the data and understand the different sources of data and sampling theory	BL-2	None
CO2	To understand, apply and analyse the Hypothesis and Measurement scales in primary research	BL-2	None
CO3	To understand, apply and analyse the reliability, and validity analysis using SPSS	BL-2	None
CO4	To remember, understand the basic concept and analyse the exploratory factor analysis using SPSS	BL-2	None
CO5	To understand the concept of correlation and apply in terms of measurement using SPSS	BL-2	None

Course Name **Cross Cultural Business Management**
Course Code **BB3411**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	The students will be able to understant globalization and role in cross-cultural context.	2	Ent/Emp/S
CO2	The students will be able to understand the important variable and dimensions of culture of various nations.	2	Ent/Emp/S
CO3	The students after completion of the course will be able to apply their knowledge in entering into trade related negotiations at international level.	4	Ent/Emp/S
CO4	The students will be able to analyze the HRM & Cross- Cultural issues at interantional level.	4	Ent/Emp/S
CO5	The students after studying management styles followed by other nations, develop their own innovative styles of managing the trade affairs.	5	Ent/Emp/S

Course Name **Computational Skills (MS-office)**
Course Code **VP3402**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will have a fundamental understanding of the Word environment and the ability to complete tasks independently.	BL-2	None
CO2	They will demonstrate the correct application of the principle features of MS Word .	BL-2	None
CO3	Document examples include professional-looking reports, multi-column newsletters, résumés, and business correspondence.	BL-2	None
CO4	Students are able to done various function of MS office Word.	BL-2	None
CO5	Students are able to understand the significance of MS office Word.	BL-2	None

Course Name **Constitutional Law I**
Course Code **LW5501**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understanding the Constitution and its values and to protect and nurture the ideals of the framers of the Constitution.	BL-2	Em
CO2	Application and Understanding the role of the state in protecting the rights of the citizens. Application of the relevant laws in ensuring compliance of the constitutional values by the state machinery.	BL-3	Em
CO3	Understand about the various Fundamental Rights and Ensuring maintenance of law and order by the authorities.	BL-2	Em
CO4	Applying the concept from the knowledge gained in enforcing the Fundamental Rights Developing competency in challenging the state before the judiciary for the violating the core values of the Constitution.	BL-3	Em

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CO5	Understand about the various well equipped Directive Principles of State Policy and Fundamental Duties in the good governance of the country.	BL-2	Em

Course Name **Law of Crimes-I(I.P.C)**
Course Code **LW5502**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand Introduction Definition, nature, meaning of crime, Theories of crime, Relationship of crime and society, Crime Vs. Morality & Ethics, Development of Criminal Law (Hindu, Mohammadan , & British Society) Essentials of crime Actus Reus, Mens Rea, Stages of crime, Parties of Crime.	BL-2	Em
CO2	They will understand Kinds of Punishment, Important Definitions of Criminal Liability ,Abetment, Criminal Conspiracy , General Exceptions to Crime	BL-2	Em
CO3	They will be able to understand and illustrate in details about Homicide, Manslaughter, Hurt, Wrongful Restrain and Confinement, Criminal Force & Assault, Kidnapping, Abduction, Slavery & Forced Labor ,Sexual offences .	BL-3	Em
CO4	They will able to understand definitions and analyze when these crimes - Theft, Extortion, Robbery& Dacoit, Criminal Misappropriation of Property, Criminal Breach of Trust, Receiving Stolen Property, Cheating, and Fraudulent Deeds & Disposition of Property, Mischief, and Criminal Trespass.	BL-3	Em
CO5	They will understand and analyze when Waging, attempting or conspiring to wage, War against government ,Sedition, Harboring state Prisoner, Unlawful Assembly, Rioting, Affray, Promoting Enmity between Groups takes place in a country.	BL-3	Em

Course Name **Labour and Industrial Law – I**
Course Code **LW5503**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand: about industry, and different industrial dispute, labour laws, Trade Union laws, registration, rights privilege and liabilities of a registered trade union. Penalties procedure & collective bargaining of trade related disputes.	BL-2	Em
CO2	They will understand workman. Strikes and lockouts in industrial dispute, workman, strike, lay –off, retrenchment, provisions of closer, compensation theory, unfair labour practice, penalties.	BL-2	Em
CO3	They are able to understand and interpret about Factories Act and its relevant definitions, provisions of hazardous process, working hour and employment of youth, adult & women, Annual welfare of workers leave with wages, special provisions, penalties and procedures.	BL-3	Em
CO4	They will able to understand and practice how Workmen's Compensation Act, 1923,its definitions. Workmen's compensation, procedure for determination of compensation, commissioners etc. features of the minimum wages act,1948, definition, Procedure for fixation or revision of minimum wages, authorities and their powers, claims etc functions.	BL-3	Em
CO5	They will understand apply the concept of The Industrial Disputes Act, 1947, section 2 (j), ,section 2 (k), Due control and super- vision test, Predominant nature of duty test, The Industrial Dispute Act, 1947, section 2 (s), 'Strike'&'Lock out'- The Industrial Disputes Act – Sections 2(q), 2(l), 2(n), 10 (3), 10 A (3A), 22-28, The Essential Services Maintenance Act, 1981, 'Lay off' 'Retrenchment' & 'Closure' at the time of ID.	BL-3	Em

Course Name **Health Law**
Course Code **LW5504**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to gain elementary understanding of the scope and purpose of health law.	BL-2	Em
CO2	Students will be able to know the various organization of health law and to develop an understanding of basic concepts of health law and duties and liabilities of hospital.	BL-2	Em
CO3	Students will be able to understand the meaning and value of medical jurisprudence from the point of view of basic concepts of law and legal system.	BL-2	Em
CO4	Student will be able to understand the legal aspects of health law.	BL-2	Em
CO5	Students will be able to apply basic knowledge of liability of doctor.	BL-3	Em

Course Name **Land Law including Tenure and Land Reforms**
Course Code **LW5515**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to gain elementary understanding of the scope and purpose of land law.	BL-2	Em
CO2	Students will be able to know the various land reforms in India and to develop an understanding of basic concepts of land law.	BL-2	Em
CO3	Students will be able to understand about lease surrender of land by land management committee from the point of view of basic concepts of land law.	BL-2	Em
CO4	Students will be able To gain skills and acquire knowledge Of UP land revenue act 1901.	BL-3	Em

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CO5	Students will be able to apply basic knowledge of fundamental concepts of land acquisition act and Indian registration Act	BL-3	Em

Course Name **Bankruptcy and Insolvency**
Course Code **LW5506**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	They will understand the history and evolution of IBC and present ecosystem of insolvency in India.	BL-2	Em
CO2	They will understand the procedure for commencement of CIRP, role of Financial creditor and Operational Creditor in the initiation of insolvency Proceedings.	BL-2	Em
CO3	They will be able to analyse the role of moratorium in protecting the interests of different stakeholders during CIRP. They will also understand the role of IRP in conducting CIRP	BL-4	Em
CO4	They will be able to remember and understand the composition, powers and duties of COC. They will also understand the role of RP in conducting CIRP.	BL-2	Em
CO5	They will be able to understand and apply the liquidation process and distribution of assets upon completion of liquidation and dissolution.	BL-3	Em

Course Name **Social Media and Digital Transformation**
Course Code **VP3505**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Able To Understand The Social Media & Their Environment.	BL-2	Em
CO2	Able To Understand The Discourse of Social Media Platforms & Safety Guidelines when Communicating on Social Media.	BL-2	Em

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CO3	Able To Understand The New Media Challenges.	BL-2	Em
CO4	Able To Understand The Digital Transformation.	BL-2	Em
CO5	Able To Understand The New Media Discourse Through Practical Work.	BL-2	Em

Course Name **Telecommunication Law**
Course Code **LW5525**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the legal framework for telecommunications in India	BL-2	None
CO2	To critically analyse the regulatory structure and various regulatory agencies in the telecommunication sector.	BL-4	s
CO3	To understand the legal issues involved in the broadcasting sector	BL-2	None
CO4	develop an awareness of the legal and policy developments in the sector in Australia and world wide	BL-2	s
CO5	Understand the concepts and principles underlying relevant legislation and case law in the area of telecommunications law	BL-2	None

Course Name **Women and Law**
Course Code **LW5535**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Provide students with an understanding of the legal environment and culture in which the rights of women and men developed.	BL-2	None
CO2	Students will understand cognitive skills that will allow them to become more integrated and well-rounded individuals by examining particular social and cultural issues from different perspectives.	BL-2	s

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CO3	Students will understand the diversity and multiplicity of cultural forces that shape the world through the study of gender and sexuality, as well as race and class, with special focus on the contributions of and differences between women and men.	BL-2	None
CO4	Apply those perspectives to real-world situations and explain the deleterious impact and the privileges sustained by sexism, as well as homophobia, in areas such as legal rights, home life and work life through analysis both of court decisions and current events.	BL-2	s
CO5	Different approaches to interpreting how women have been viewed and treated in the legal context, and then learn to analyze case law and legislation using those different theoretical frameworks.	BL-2	None

Course Name **Constitutional Law – II**
Course Code **LW5601**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand about the distribution of legislative, administrative and financial powers between the center and the states	BL-2	Em
CO2	Understanding the functions of the Supreme Court and theHigh Courts as the guarantor and protector of the Constitution.	BL-2	Em
CO3	Understanding the federal structure of the government and to approach the judiciary when there is transgression of powerby the States	BL-2	Em
CO4	Developing competency in challenging the State for itsaction and inaction in upholding the principles of the Constitution.	BL-3	Em
CO5	The student gets acquainted and develops competency in approaching the judiciary with the help various judgments and case laws that helped in developing the constitutional jurisprudence in India.	BL-3	Em

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Course Name **Law of Crimes-II (Cr.P.C)**
Course Code **LW5602**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Fundamental concept regarding the criminal procedure code of India.	BL-2	Em
CO2	Understand the concept of what is adjective law and substantive law.	BL-2	Em
CO3	To be confident in delving into various procedural intricacies in solving and defending in various criminal courts.	BL-2	Em
CO4	The students will develop and analytical skill in appreciating the veracity of a criminal investigation, arguing regarding the legal feasibility of a criminal case and which forum of criminal justice system is to preferred and at which stage.	BL-3	Em
CO5	That the students will be skill fully handling major criminal cases and in their future prospects of being judges, lawyers or any legal luminary, the skill gained will be the treasure.	BL-3	Em

Course Name **Labour And Industraial Law II**
Course Code **LW5603**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Ability to understand the importance of labour law to ensure social welfare of workers.	BL-2	Em
CO2	Ability to understand how minimum wage protects workers from exploitation	BL-2	Em
CO3	Ability to understand how Child labor laws are designed to provide overall protection and safe working conditions for minors	BL-2	Em
CO4	Understanding how these laws help the employees to improve their social status i.e. material and morale of the workers by providing adequate wages	BL-2	Em

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CO5	Understanding how minimum wage, which protects workers from exploitation and provides employers with a measure of minimum compensation that can help them determine appropriate wages for labor with different skill sets and levels of experience	BL-2	Em

Course Name **Corporate Governance**
Course Code **LW5604**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students' acquaintance with principles of Corporate Governance and understanding its importance for companies' performance.	BL-2	Em
CO2	Acquire the knowledge of basic functions of CG, key financial and non-financial stakeholders, the role of financial and non-financial institutions in a company's governance, key concepts of CG.	BL-2	Em
CO3	Acquire the ability to analyse principles of decision-making, to determine the key interests of major stakeholders, to analyse the system of CG and acquire the skills of matching CG decisions and a company's strategy, alongside taking ethical and reasonable, data-	BL-4	Em
CO4	Summarizes recent scandals and abuses and the regulatory reaction. Identify the other drivers of corporate governance, such as capital markets, shareholders and rating agencies.	BL-2	Em
CO5	Identify issues usually addressed by corporate governance structure.	BL-2	Em

Course Name **Interpretation of Statutes**
Course Code **LW5615**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students learn how to read and understand the statutes when they have ambiguous words.	BL-2	Em
CO2	Students learn how to decipher the correct meaning when there are Complexities in the statutes. Because our actions are governed by the enacted statutes	BL-4	Em
CO3	Students can fill the gaps in rules because society changes from time to time and there may be new developments happening in a society that is not taken into consideration, this lacks the predictability of the future event	BL-3	Em
CO4	The students by leaning interpretation of statutes will be able to determine the intention of the legislature conveyed expressly or impliedly in the language used.	BL-2	Em
CO5	A Statute is a formal written enactment of a legislative authority that governs a state or country as a whole. A learner can become a preserver of peace by learning it.	BL-2	Em

Course Name **Investment and Competition Law**
Course Code **LW5606**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students learn Evolution of Securities and Investment Lawsin India Concept of Securities and Kinds of Securities Regulatory Framework to Govern Securities in India	BL-2	Em
CO2	Students learn Role of Banks to Issue Securities Changing Functions of Banks from Direct Lending to Modern System of Investment Banking. Securitization and Reconstruction of Financial Assets	BL-2	Em
CO3	Students understand Role of the Foreign Exchange Management Act, 1999 to Regulate Foreign Trade - Difference from FERA, Administration of Exchange Control, Adjudicatory Powers	BL-2	Em

CO4	The students understand the evolution of Competition Law in India, Difference from the MRTP Act Anti- Competitive Agreements, Vertical and Horizontal Agreements, Predatory Pricing , Abuse of Dominance	BL-2	Em
CO5	The students understand Combinations and its Regulations ,Powers and Functions of Competition Commission of India, Appellate Authorities, Competition Advocacy, Brief conceptof the Development of Competition Laws in USA and UK	BL-2	Em

Course Name **Computer Aided Law Practices**
Course Code **VP3607**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Evaluate the law in relation to intellectual property, Internetcontent, eBusiness and eGovernance.	BL-2	Em
CO2	Critically analyse the law in relation intellectual property,the regulation of Internet eGovernance, and make suggestions for reform.	BL-2	Em
CO3	Developed research skills and knowledge of technical and legal IT resources in preparation for classes.	BL-2	Em
CO4	Developed the ability to critically review national, EU and international IT law policy	BL-2	Em
CO5	Developed competence in the use of key online and offline IT legal resources.	BL-2	Em

Course Name **Criminology**
Course Code **LW5625**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be able to understand definition of nature and history of criminology, techniques of studying criminal behavior..	BL-2	Em
CO2	Students will be able to analyze of crime-biological, sociologica and financial crime.	BL-3	Em
CO3	Students will be able to understand about specific offender group. Juvenile delinquency, substantive group. Terrorism.	BL-2	Em
CO4	Students will be able to analyze. Special offences, crime against women, homicide.	BL-3	Em
CO5	Students will be able to understand how to rehabilitee in family and society. Role of law in society, role of voluntary agencies to rehabilitee criminals.	BL-2	Em

Course Name **International Commercial Law**
Course Code **LW5635**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand definition of nature international law, aims and objects, importance and role of international law...	BL-2	Em
CO2	Students will be able to understand about international sale contract .formation and breach of contract, Doctrine of Frustration about damage caused to the parties.	BL-2	Em
CO3	Students will be able to understand carriage and goods, Unimodal and Multimodal Transportation of Goods .Documents of Carriage of Goods by Sea. Bills of Lading: Kinds, Nature, Features About INCOTERMS 2010	BL-2	Em
CO4	Students will be able to analyze. International payments, methods of payments, uniform customs practice. Types and parties to letter of credit.	BL-3	Em
CO5	Students will be able to understand arbitration, mediation, conciliation, recognition and enforcement and investment dispute resolution.	BL-2	Em

Course Name **Law of Taxation**
Course Code **LW5701**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students are able to understand information about the historyand development of taxation laws in our country.	BL-2	Em
CO2	Students apply in carrying out professional life based on the Course and Provide updates about the new development intax regime.	BL-3	Em
CO3	Students are able to Locate the target to avoid the tax, availing the loopholes of the laws and Increases the skill of safeguarding individual as well as country's interest	BL-2	Em
CO4	Students are able to understand contribution of the economicdevelopment of the country in general and also provides safeguard to the taxpayers.	BL-2	Em
CO5	Students are able to understand the powers of the government to impose taxes under the Constitutional Provisions also Provide information about different types ofincomes that are Course matter of the Course.	BL-2	Em

Course Name **Evidence Law**
Course Code **LW5702**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Basic concept regarding the evidence as to its fact in issue and relevancy of facts and applicability in various branches of law	BL-2	None
CO2	The concept of developing of examination of witness and who are competent to testify.	BL-3	None
CO3	The art of cross examination and application of law of evidence to the real facts.	BL-3	None
CO4	That an analytical skill for weighing the evidence in relation to an alleged facts.	BL-2	None

CO5	That in handling of real problems and solving any given situation by developing a judicious mind.	BL-3	None

Course Name **Drafting, Pleading and Conveyance**
Course Code **LW5703**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Prepare legal instruments such as constitutions, statutes, regulations, ordinances, contracts, wills, conveyances, indentures, trusts and leases, etc	BL-3	None
CO2	Collect, consolidate and co-ordinate the facts in the form of a document.	BL-2	None
CO3	Facilitate in applying law points in the light of facts in a systematized sequence.	BL-3	None
CO4	Facilitate in learning the drafting of important legal documents.	BL-3	None
CO5	Facilitate and gain the knowledge of various types of petitions which are part and parcel of pleading.	BL-2	None

Course Name **International Trade Economics**
Course Code **LW5704**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students are able to understand International Trade Theories: Ricardian Theory, Smith Theory, Hechscher- Ohlim Model; India's Trade policies; Important Definitions and Terms used in International Trade	BL-2	Em
CO2	Students are able to understand Most Favoured Nation,Principle of National Treatment,Foreign Direct Investment, Import substitution; Multilateral Trading System	BL-2	Em

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CO3	Students are able to understand GATT-Its salient features; WTO- Need, Marrakesh Agreement; The WTO: History, Structure and Future; The WTO and Developing Countries; WTO Dispute Settlement; WTO	BL-2	Em
CO4	Students are able to understand International Trade Agreements:Bilateral Trade Agreements, Free Trade Agreements, Regional Trade Agreements; Bilateral Investment Treaties	BL-2	Em
CO5	Students are able to understand U.N. Convention on E- Commerce; International commodity agreements; Unidroit Principles of International Commercial Contracts; Payment Mechanisms and Guarantees- International Transfer	BL-2	Em

Course Name **Offence against Child and Juvenile Offence**
Course Code **LW5706**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Work efficiently and with critical engagement with various concepts of Criminal law in relation to child protection , having due regard to the practical implementation of the principles in actual cases;	BL-2	Em
CO2	Develop coherent, comprehensive and persuasive arguments from an adversarial point of view;	BL-2	Em
CO3	Understand the various dimensions of the various aspects of crime and criminal behavior and the implementation of the law through Judicial interpretation, etc;	BL-2	Em
CO4	Demonstrate a thorough and contextual knowledge of various offences under the I.P.C, JJ Act 2015 and the various leading cases, particularly in its application to real life legal scenario;	BL-3	Em
CO5	Demonstrate a high level of skill on academic and professional legal writing.	BL-3	Em

Course Name **Local Self Government including Panchayat Administration**
Course Code **LW5735**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To Develop a understanding of local leadership and Nature, Characteristics of Local Self Government.	BL-2	None
CO2	To Exhibit the evolution of Local self government and efforts for rural and urban development.	BL-1	s
CO3	To understand Composition, Powers and Functions of Panchayati Raj Institutions with Modern Trends and Problems in Local Government in India	BL-2	None
CO4	To understand the structure of urban local Self Government and their status before and after the independence.	BL-2	s
CO5	To understand Composition, Powers and Functions of Urban Local Bodies, Municipal Corporation, Municipal Council, Nagar Panchayati	BL-2	None

Course Name **Employability Skills GDPI**
Course Code **VP3601**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students should be able to create their CVs & thus highlighting their achievements & qualifications.	BL-2	None
CO2	Students should be able to present themselves effectively in terms of (Reading, Speaking & Writing).	BL-1	s
CO3	Students should be able to develop their public speaking skills.	BL-2	None
CO4	Students should be able to succeed in a professional group discussion.	BL-2	s
CO5	Students should be able to learn how to crack the interviews by enhancing verbal & non-verbal communication.	BL-2	None

Course Name **Election law**
Course Code **LW5715**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand definition election and democratic process.	BL-2	Em
CO2	Students will be able to an understand of the representation of people Act,1950.	BL-2	Em
CO3	Students will be able to understand conduct of election rul 1961.	BL-2	Em
CO4	Students will be able to analyze. Special election commission.	BL-3	Em
CO5	Students will be able to understand the financing of election campaign and different issues.	BL-2	Em

Course Name **International humanitarian law**
Course Code **LW5725**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about the humanitarian law	BL-2	None
CO2	Summarizing the concept of geneva convention system	BL-3	None
CO3	To understand about the armed conflicts among the nations.	BL-2	None
CO4	To learn the concept of enforcement machinery of international humanitarian law	BL-2	None
CO5	Summarizing the role of international human rights organizations	BL-2	None

Course Name **Code of civil procedure I and limitation act**
Course Code **LW5801**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	To understand and practically apply the basic principles of procedural law in civil matters	BL-2	None
CO2	To understand the concept of joinder misjoinder and nonjoinder of parties while framing suits	BL-2	None
CO3	To be able to apply the principle of Resjudicata	BL-3	None
CO4	To understand the modes of delivery of summons and consequences of non appearance of parties	BL-2	None
CO5	To understand the differenceTo differentiate between a decree and order and judgement between a decree and order and judgement	BL-2	None

Course Name **Property Law**
Course Code **LW5802**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand the need of having an inclusive law on property.	BL-2	None
CO2	To understand transfers by act of parties and operation of law.	BL-2	None
CO3	To examine the difference between Movable and Immovabl	BL-3	None
CO4	To study the general principles of sale and mortgage	BL-2	None
CO5	To gain the knowledge of the actionable claims and liability of the transfree.	BL-2	None

Course Name **Alternative Dispute Resolution**
Course Code **LW5804**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Concept of Alternative Dispute Resolution Knowledge about the Justice Delivery System both in National as well as International Level	BL-2	Em

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CO2	Public Speaking and organizing legal aids helping people know about the ADR procedure	BL-2	Em
CO3	Applying the procedures relating to ADR in the daily lives of the students. .	BL-3	Em

Course Name **Company Law**
Course Code **LW5803**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To Understand Company Law in relation to the necessary legal framework to be adopted in the day to day functions of the company.	BL-2	Em
CO2	To understand the concepts better and keep updated with national Laws related to formation of Company	BL-2	Em
CO3	To acquire application oriented knowledge and develop understanding about regulatory framework of Company Law.	BL-3	Em
CO4	To cover various facets of Company Law such as Meeting Board and its Powers, Contents of prospectus, powers of directors, duties of directors.	BL-2	s
CO5	To understand the process of Meetings & Winding Up of Company and Efficiency in identifying factual and legal issues on the latest developments taking place in this area.	BL-2	None

Course Name **Environment law**
Course Code **LW5806**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about the nature & significance of environment law	BL-2	None
CO2	Develop an understanding of the regulatory and judicial frameworks implementing and enforcing these laws	BL-2	None

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CO3	Understand that environmental law cuts across and within legal systems, fields of law, vested interests and disciplinary boundaries	BL-2	None
CO4	Develop understanding of the overall environmental legal regime of the country as well as its international obligations.	BL-2	None
CO5	Summarizing the role of different institutions to protect the environment	BL-3	None

Course Name **Mediation law**
Course Code **LW5815**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about the nature & significance of arbitration act.	BL-2	None
CO2	Learners are imparted in-depth knowledge of the basic concept of ADR as well as its various mechanisms.	BL-2	None
CO3	Students are sensitized towards the benefits that ADR mechanism offers over litigation..	BL-3	None
CO4	Students attain an understanding of the practical nuances of the course through simulation exercises and visits to ADR centres	BL-2	None
CO5	Students practice independently in the field of Arbitration, Conciliation and Mediation and their skills and services can also be utilized by the courts while implementing Section 89 of CPC.	BL-2	None

Course Name **Data Analytics (SPSS)**
Course Code **VP3801**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To be able to perform a wide range of data management tasks in SPSS application	BL-2	Em
CO2	Understand the basic workings of SPSS, and perform basic statistical analyses.	BL-2	Em

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CO3	To perform database management tasks, descriptive statistics and graphics, and basic inferential statistics for comparisons and correlations.	BL-4	Em
CO4	To perform data checking and create simple tables and charts.	BL-2	Em
CO5	To perform advanced analysis in SPSS	BL-4	Em

Course Name **Socio Economic Offences**
Course Code **LW5825**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about the nature & significance of socio economic offences.	BL-2	None
CO2	Summarizing the concept of Narcotic Drugs and Psychotropic Substances Act.	BL-2	None
CO3	To understand about the food and safety standard act.	BL-2	None
CO4	To learn the concept of prevention of corruption act, 1988	BL-2	None
CO5	To understand and gain the knowledge about money laundering	BL-2	None

Course Name **International Economic Law**
Course Code **LW5835**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to gain knowledge of general introduction of international economic law	BL-2	None
CO2	Summarizing the subjects which come under it.	BL-2	None
CO3	To understand about the rights of the states dealing in economic law.	BL-2	None
CO4	To learn the concept of settlements of disputes related in international economic law.	BL-2	None

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CO5	Student will be able to understand and explain the fundamental principles of international economic law	BL-2	None

Course Name **Code of criminal procedure -II and Specific Relief Act**
Course Code **LW5901**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand and practically apply the basic principles of procedural law in civil matters.	BL-2	None
CO2	To comprehend and get an insight into various aspects of execution of decrees.	BL-2	None
CO3	To understand the concept of delivery of property and objection and claims	BL-2	None
CO4	To know the concept of appeal and and powers of court	BL-2	None
CO5	Summarizing the role specific relief act	BL-2	None

Course Name **Moot Court Exercise**
Course Code **LW5902**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Enhance analytical as well as critical thinking of Students over interesting and contemporary legal issues,	BL-2	Em
CO2	Demonstrate a thorough and contextual knowledge of the various laws particularly in its application to real and hypothetical legal problems.	BL-3	Em
CO3	Acquire skill in advocacy, legal research and writing skills	BL-2	Em

Course Name **Professional Ethics & Professional Accounting System**
Course Code **LW5903**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn and understand the aims and objective of professional ethics, code of legal ethics, professional accounting system, relationship between bar and bench,	BL-2	None
CO2	Understanding the concept of Contempt of Court Act 1971.	BL-2	None
CO3	To analyze about. Bar Council and Ethics Bar Council of India Rules on Standards of Professional Conduct and Etiquette.	BL-3	None
CO4	Students will analyze different cases in Practical paper I.	BL-3	None
CO5	Students will analyze different cases in Practical paper II	BL-3	None

Course Name **Maritime Law**
Course Code **LW5904**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To Understand Company Law in relation to the necessary legal framework to be adopted in the day to day functions of the company.	BL-2	Emp
CO2	To understand and Identify the main legal framework governing maritime commerce and affairs.	BL-2	Emp
CO3	To understand and Identify the main legal framework governing maritime commerce and affairs.	BL-2	Emp
CO4	Demonstrate knowledge and understanding some of the key issues in legislation relayed to maritime laws.	BL-2	s
CO5	Have thorough knowledge of the rules and legal framework of international commercial affairs related to shipping and advanced knowledge of the rules and framework in this field of law.	BL-2	None

Course Name **Private International Law**
Course Code **LW5906**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand nature and development of International Law, its sources ,history, development, relationship of International law.	BL-2	Em
CO2	Students will be able to analyze about State its recognisation, succession. Law of sec & air, different treaties, formation, classification, ratification and termination and binding forces.	BL-3	Em
CO3	Students will be able to understand about how to do settlement of dispute in international law. Arm conflicts, insurgency, Four Geneva covenants of 1949 including its Additional Protocol of 1977, Enemy character. Belligerent occupation. Prize court, role of ICRC, terrorism, international humanitarian law.	BL-2	Em
CO4	Students will be able to analyze about The law of Neutrality	BL-3	Em
CO5	. Students will be able to understand about different international institutions, League of Nation, UN organization, international court of justice, international criminal law.	BL-2	Em

Course Name **Law of International Organization**
Course Code **LW5915**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand nature and development of International Law, its sources ,history,development,relationship of International law.	BL-2	Em

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CO2	Students will be able to analyze about State its recognisation, succession. Law of sec & air, different treaties, formation, classification, ratification and termination and binding forces.	BL-3	Em
CO3	Students will be able to understand about how to do settlement of dispute in international law. Arm conflicts, insurgency, Four Geneva covenants of 1949 including its Additional Protocol of 1977, Enemy character. Belligerent occupation. Prize court, role of ICRC, terrorism, international humanitarian law.	BL-2	Em
CO4	Students will be able to analyze about The law of Neutrality	BL-3	Em
CO5	. Students will be able to understand about different international institutions, League of Nation, UN organization, international court of justice, international criminal law.	BL-2	Em

Course Name **International refugee Law**
Course Code **LW5925**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand nature and development of refugee Law, its sources, history, development, relationship of International law.	BL-2	Em
CO2	Students will be able to analyze about State its recognisation, succession. Law of sec & air, different treaties, formation, classification, ratification and termination and binding forces.	BL-3	Em
CO3	Students will be able to understand . Burden Sharing. Extradition of Refugee Voluntary Repatriation, Naturalization Re-settlement in Third Country	BL-2	Em
CO4	Students will be able to understand Statute of the Office of the United Nations High Commissioner for Refugees (UNHCR), 1950 2. Role of UNHCR	BL-2	Em

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CO5	. Students will be able to understand Registration of Foreigners Act, 1939, the Foreigners Act, 1946, and the Foreigners Order, 1948 Role of National Human Rights Commission (NHRC) Judicial decisions interpreting rights of refugees in India India's Position regarding	BL-2	Em

Course Name **Critical Thinking and Personality Development**
Course Code **VP3901**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	On the completion of course the Students will be able to write, understand, analyze and create sentences in professional language (English). Students' horizon will be expanded with the correct usage of Grammar in writing and speaking, and will be able to improvise their speaking ability.	BL-2	Em
CO2	Students will be able to take part in daily routine conversation in English	BL-2	Em
CO3	Students will be able to understand and partially be groomed in corporate etiquettes and culture	BL-2	Em
CO4	This course will aid the students to learn words and form strong vocabulary, use them correctly in a sentence while speaking and writing. Moreover, understand their meaning in the text	BL-2	Em
CO5	The Students will learn to use strategies to listen actively and able to distinguish more important ideas from less important ones. Implement them while participating in the discussions. Henceforth, It yields the improvement in understanding, analyzing, creating and implementing the learning into real world encounter,	BL-2	Em

Course Name **Security Law**
Course Code **LW5935**

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Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	To understand the role of SEBI in regulating the Securities market	BL-2	None
CO2	To understand the role of SEBI in preventing the manipulative practices in the market	BL-2	None
CO3	To understand Powers of Central Government; Delegation of Powers; Appeal to The Central Government; Bar of Jurisdiction; Public Servants	BL-2	None
CO4	To analyze the kinds of offences and role of Company Secretary	BL-4	None
CO5	To understand Public Issue and Listing of Securities; Conditions for Listing and Delisting of Securities; Offences;Offences By Companies; Certain Offences To Be Cognizable; Cognizance Of Offences By Courts	BL-2	None

Course Name **Administrative Law**
Course Code **LW51001**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to learn about the nature & significance of Administrative law.	BL-2	Em
CO2	Summarizing the concept of Delegate Legislation, advantage and disadvantage. USA& UK Delegate legislation.	BL-2	Em
CO3	To understand about the Principles of Natural Justice (Practice and Procedure of Administrative Adjudication.	BL-2	Em
CO4	To learn the concept Judicial Review of Administrative Action – Judicial Remedies. Jurisdiction of Supreme Court Art 226 and High Court 32 of the Constitution of India.	BL-3	Em

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CO5	Students will be able to learn about Other Remedial Procedures – P.I.L., Liability of Administration, statutory and Non-statutory Public Undertakings, Constitutional Protection of civil servants etc.	BL-2	Em

Course Name **Public International Law**
Course Code **LW51002**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand nature and development of International Law, its sources ,history,development,relationship of International law.	BL-2	Em
CO2	Students will be able to analyze about State its recognisation, succession. Law of sec & air, different treaties, formation, classification, ratification and termination and binding forces.	BL-3	Em
CO3	Students will be able to understand about how to do settlement of dispute in international law. Arm conflicts, insurgency, Four Geneva covenants of 1949 including its Additional Protocol of 1977, Enemy character. Belligerent occupation. Prize court, role of ICRC, terrorism, international humanitarian law.	BL-2	Em
CO4	Students will be able to analyze about The law of Neutrality	BL-3	Em
CO5	. Students will be able to understand about different international institutions, League of Nation, UN organization, international court of justice, international criminal law.	BL-2	Em

Course Name **Human Rights Law and Practices**
Course Code **LW51003**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)

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CO1	Students will be able to learn about The concept of Human Rights Theoretical foundations of Human Rights	BL-2	Em
CO2	Summarizing the concept of UN and Human Rights - Significance and limitations- International Covenant.	BL-2	Em
CO3	To understand about the Human Rights under the Constitution and Different legislation in Indi	BL-2	Em
CO4	To analyze the concept Enforcement of Human Rights International commissions of Human Rights- Amnesty International- American system and European system- Role of the Judiciary in India- Statutory Commissions- Woman's Commission.	BL-3	Em
CO5	Students will be able to understand about Protection of Human Rights Act,1993- National Human Rights Commission- State Human Rights Commissions- Role of Media- Role of NGO's- Human Rights Education Examination Scheme.	BL-2	Em

Course Name **Penology and Victimology**
Course Code **LW51034**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students will be able to understand definition of Penology , concept and object of punishment, theories of punishment.	BL-2	Em
CO2	Students will be able to understand about police system, police reform, judicial trends towards police system..	BL-2	Em
CO3	Students will be able to understand about prison reform its administration and understanding. Judicial trend in India and about open prison.	BL-2	Em
CO4	Students will be able to analyze probation of offender and parole, salient feature of Probation of offender Act 1958, Parol system and judicial ternd in India.	BL-3	Em

CO5	Students will be able to understand Victimlogy, different victims of crime. Impact of victimization. Compensatory provision under Cr.P.C, Probation of offender Act 1958. Motor Vehicle Act, 1988. relief to victims – judicial trend. And Victimization and victim welfare fund.	BL-2	Em

Course Name **: Comparative Law**
Course Code **LW51024**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Understand the foundational principles of comparative law, undertake (self-directed) legal research intermediate, and evaluate legal information.	BL-2	None
CO2	Apply comparative law to complex problems/ issues, critique the operation comparative law from a theoretical perspective as part of a team.	BL-3	s
CO3	Structure and sustain concise and cohesive written arguments for a legal and professional audience	BL-2	None
CO4	Analyse the impact of comparative law from comparative and international perspectives, and in the context of social and cultural diversity.	BL-4	s
CO5	Reflect on their abilities to effectively undertake work as a member of a team	BL-2	None

Course Name **Forensic Sciences**
Course Code **LW51014**

Unit-wise Course Outcome	Descriptions	BL Level	Employability (Emp)/ Skill(S)/ Entrepreneurship (Emt)/ None (Use , for more than One)
CO1	Students are able to understand definition, nature and scope of Forensic Science; History and Development of Forensic Science	BL-2	None

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CO2	Students are able to understand crime scene investigation: Understanding and purpose of Crime scene examination and investigation, physical evidence, its collection, packing and transportation,	BL-2	None
CO3	Students are able to understand Anthropometry, Dactylography, Foot Deformities Prints, Scars,, Tattoo Marks, OccupationalMarks, Hand Writing, Clothes Personal Articles, Speech	BL-2	None
CO4	Students are able to understand Death and its Medico- Legal Aspect-Definition, Mode of Death, Sudden Death,Sign of Death, Time since Death, Presumption of Death, Presumption ofSurvivorship; Medico-Legal aspect of Wounds: Nature of injury, Examination of Injured	BL-2	None
CO5	Students are able to understand Recent advances in Forensic Science: Narco Analysis, Brain Mapping, DNAfinger printing and their admissibility in the Court, Polygraph Test and NHRC guidelines of administration of Polygraph test.	BL-2	None

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