

Action Taken Report on Feedback of Stakeholders

Session (2021-22)

Program Name: Bachelor of Computer Applications (B.C.A)




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Quantum University

Department of Computer Applications
Faculty of Technology
Quantum University, Roorkee

Action Taken Report of the Department


(On the basis of the suggestions made by the IQAC and Super Specialty Groups of the
Departments on the Feedback of all stakeholder)

Action Taken Report		
Department Name: Department of Computer Application		
Feedback Session: 2021-22		
Curriculum Design		
Code	Recommendation by Super Specialty Groups of the Department	Action taken during designing the syllabus of 2022-25
CA3101	R-2: Components of the computer system and other basic topics can be added to the introductory part in unit 1.	Generations of computers, Elements of computer systems have been added in unit 1.
CA3102	R-2: Euler and Hamiltonian concepts must be added to the content in the 4 th unit.	Updated the unit 4 by adding the concepts of Euler Graphs and Hamiltonian Graphs.
CA3104	R-2: Topics like Operating System, Installation of Ubuntu etc. can be added in initial parts of the syllabus.	Updated the syllabus by incorporating the suggestions.
CA3204	R-2: More topics can be added to the introductory part in unit 1. Also, unit 4 can be enriched with more topics like cohesion and coupling.	Revised the syllabus by adding topics like software design and cohesion in the 1 st and 4 th units respectively.
CA3244	R-3: Programs like implementation of stack and queue can be added to get practiced in the initial phases of lab.	Added stack implementation and queue implementation as the first two programs in the list of practical.
CA3301	R-2: Unit 1 can be revised by adding certain concepts of object-oriented programming.	Updated the unit 1 by adding topics like Arrays, Objects, classes etc.
CA3304	R-2: Types of Operating Systems, Distributed Scheduling, concepts of distributed file systems etc. are the topics that must also be taught in this subject.	Incorporated types of O.S in unit 1, Distributed Scheduling in the unit of CPU scheduling and Distributed file systems in the last unit.
CA3305	R-2: Topics like relational Algebra, Canonical forms can be incorporated into the syllabus content.	Added the topics like relational algebra, normalization etc. in the first two units of the syllabus.
CA3401	R-2: 4 th unit can be enriched with some more topics relatable to transport layer.	Topics like port addressing have been added to unit 4.
CA3405	R-2: The syllabus can be reviewed in order to revise in terms of more industry related topics.	Reviewed the syllabus and replaced certain topics with the topics of industry need.

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CA3440	R-2: Commands of network configurations must also be practiced in the labs.	Updated the list of practical by adding two programs related to network configuration.
CA3442	R-3: Programs for calculating age, control flow etc. can be practiced in the labs.	Added the programs as per the suggestions in the list of practical.
CA3505	R-2: EM Algorithm must also be taught in unit 4.	Enriched unit 4 of evaluating hypothesis by EM algorithm.
CA3543	R-3: Review the list of practical. Many programs can be replaced with more relevant ones like creation of CAPTCHA, CRUD operations etc.	Revised the list of practical by adding various programs that are more relatable to the novice topics in the subject.
CA3601	R-2: Topics like maximum likelihood test can be added to the basic analysis techniques.	Updated the syllabus by adding topics like maximum likelihood test, decision tree etc. in the syllabus.
CA3603	R-2: There are some topics repeated with in the same units. Unit 2 and unit 4 need to be reviewed.	Revised unit 2 and unit 4 by arranging the topics in right order and removing the repetition.
CA3605	R-2: Last unit of developing mobile applications can be enriched with topics like Android manifest.xml etc.	Revised the unit 5 with the topics more relevant to mobile application development.

Other Teaching Learning Aspects		
Overall Teaching Learning Process	R-5: There must be some courses that can be made part of the curriculum but the students have to be taught online through various learning platforms over the web. Relevant study material, video lectures etc. can be shared with the students on ERP.	Incorporated the suggestion by introducing some MooC courses in various semesters. Also, learning material including hand written notes, lecture videos, links of relatable content on web etc. are uploaded on ERP through QLRC.
Peer Group Learning	R-7: Groups of students can be formed. Students with good academic records can be considered bright and must be imparted learning of advanced levels. While the students with average academic records must be dealt according to their levels of learning.	The students are categorized into groups of Fast and Slow learners based on the marks percentage they score in their examinations. The fast learners will be assigned mini-projects or research papers to experience learning of advanced levels, while the slow learners will be made to attend extra classes scheduled for them, where hand written notes and revision lectures will be delivered.
IT Enabled Literacy	R-4: More and more visits to IT industry, onsite trainings etc. can be frequently organized to deliver a required amount of exposure to the	Industrial visits, Internships etc. are mandatory for the students as part of their course curriculum. It will serve the students an environment to seek an


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	corporate IT culture.	exposure to industry working and will help the students to enrich their skill set with novice technologies.
Communication Skills	R-6: Group discussions, presentations etc. must be incorporated into the curriculum where the students can be served with ample platforms to practice various dimensions of effective communication.	Flip-classes, seminars, Internship presentations etc. are made part of the curriculum that will help students getting served with appropriate number of platforms to deliver more and more presentations and upskill the communication.
Training for Placements	R-4: Activities must be practiced that can groom the students in terms of their personality development and skill-enhancement.	VACs are introduced where technical, analytical and behavioural expertise is cultivated into the students. It ensures the holistic development in their personality that further helps them fetch maximum benefit during placement drives.
Orientation Program	R-1: Elaborative and informed orientation program to be conducted for students of all semester	Orientation program for New and senior students has been conducted and detailed information about subjects, teachers, mentors, electives has been provided

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University Feedback System

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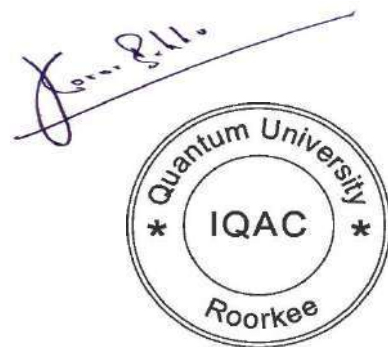
Action Taken Report		
Department Name: Department of Computer Application		
Feedback Session: 2021-22		
Curriculum Design		
Code	R-8: Recommendation by Super Specialty Groups of the Department for course content and relevance	Action taken during designing the syllabus of 2022-24
CA4106	Basic concepts of Security in networks, the CIA objectives etc. can be added to introductory units.	Updated unit 1 by adding the OSI security architecture about basics of network security in unit 1.
CA4205	The unit 3 about E-Commerce laws can be updated by adding more relevant topics related to the E-contracts.	Revised the unit 3 by adding topics like cryptographic laws, taxation issues in cyberspace, electronic signature laws etc.
CA4207	Syllabus in the last units is not at par with the industry requirements.	Updated the syllabus content in unit 3, unit4 and unit5.
CA4308	Concepts of object-oriented programming in PHP must also be made part of the syllabus.	Updated unit 3 of Arrays and Oops as per the suggestions.
CA4310	Some repeated topics in unit 2, unit 3 and unit 4.	Removed the similarity in the topics in new syllabus
CA4343	Program to manage sessions can be added to the list.	Revised the list of practicals by adding the program of managing sessions to it.
CA4401	Basic data types and operators of R-programming, filtering data etc. are the relevant topics to be added to unit 1 and 2.	Enriched the syllabus content in unit 1 and unit 2 by adding suggested topics.
CA4402	AR software, Visual representation in VR etc. are the topics that can supplement the syllabus of virtual reality systems.	Revised the syllabus by adding AR software, types of VR technology etc. in various units across the syllabus.

Other Teaching Learning Aspects		
Overall Teaching Learning Process	R-7: Some web-based learning programs can be offered to the students followed with sharing of self-explanatory hand written notes or other relevant learning material.	Supplemented the curriculum with Mooc courses. Also, the ERP is made to serve more utility by getting a variety of learning material like hand written notes, lecture videos etc. uploaded.
Peer Group Learning	R-2: There can be groups formed of students categorizing them into strong	Based on percentage of marks students are grouped into categories of fast and

	and weak students based on their percentage in marks they score. Strong students can be assigned assignments of some advanced level while the weak students must be dealt in a way that more work can be done on them to make them come up to the expected levels.	slow learners. On place of A2 assignments, the fast learners are given research papers that they have to present. For slow learners, extra classes are scheduled where hand written notes and revision lectures are delivered to them.
IT Enabled Literacy	R-3: There can be modules to supplement the curriculum aiming to help the students in getting more familiar to corporate IT culture and exposure.	Seminars have been made mandatory across various semester. The students have to pursue some training in terms of any novice technology. Also, industry visits are organized for the students on frequent basis.
More practical exposure	R-5: More practical exposure is required for students, workshops and seminars should be arranged for them. Practical approach should be adapt in teaching learning process.	Workshops and seminars will be organize for students based on emerging technologies to keep them up to date. More focus practical approach will be given
Training for Placements	R-6: Preparation for recruitments and internships, online internships should be arranged for students.	Training sessions will be organize for students, time to time platforms providing internships will be introduced to students.
Orientation Program	R-1: Elaborative and informative orientation program to be conducted for students of all semester	Implemented. Mentors informed students about all subjects, minor, open elective, certification programs etc
Guest Lectures	R-4: Special session on human values and ethics, gender equality etc to be conducted for sensitizing the students about national issues	Implemented

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