



# Report on E-GOVERNANCE IN EXAMINATION

Approved by BOM vide agenda no 8.9 (G) on 20th October, 2022



  
DIRECTOR  
IQAC  
Quantum University, Roorkee

  
Registrar  
Quantum University

## E-GOVERNANCE IN EXAMINATION

E-Governance initiative has been taken by Quantum University regarding Examinations considering a student's point of view. Traditional examinations were designed for times when there were few students enrolled in the university and fewer courses were taught. Information and Communication Technologies (ICT) are now being used to enhance examination processes to become more efficient and competitive.

The University is currently in the process of computerizing all administrative and service functions, including admissions and examinations, through in-house development. Due to the increased number of students and courses, the examination system has become more complex and burdensome, resulting in various inefficiencies in handling examinations. To address these issues, Quantum University has developed an integrated computerized examination management system for some processes.

Transparency, Reliability, and Efficiency can be achieved in university examinations by using ICT. Under the Quantum University Examination E-Governance system, the following features have been developed:

1. **Student Exam Application Management** - The e-governance system of application management helps the examination administration to receive online applications for examination. It records data like Student Applicable for ESE, Uploading Study Material, Uploading Assignments, Entering Assignment marks, etc.
2. **Students Admit Card & Attendance Management** - This system manages the data related to admit cards, attendance, award lists, and verification letters for students.
3. **To Maintain Secrecy & Confidentiality** - The University's examination system provides security to the Answer Book Code Generation and Answer Book Code Label Generation processes.
4. **Award List & Examination Analysis** - This system helps maintain the award list of the ESE and calculate grade details by using standard deviation.
5. **Online Internal & External Quiz Management** - Quantum University's Examination E-Governance system includes Online Exam Schedule, MCQ Quiz Schedule, MCQ Question Paper Upload, and Online Exam Shift Creation.
6. **Automatic Question Bank & Question Paper Generation** - An Automated System helps generate question papers quickly, randomly, and securely. It saves time and effort of the Faculty, teachers, or mentors as they can use it to generate question papers instantly.

## 1. Student Exam Application Management

### 1.1 Student Applicable for ESE

The data of students who have applied for or are applying for the End Semester Examination i.e. ESE is recorded in the LMS system of the university. In the Excel file maintained by the administration, details about the student's course, semester, college, etc, are entered. When sorting a student, the balance amount, received amount, and due amount are shown on the Excel file.

**Student Applicable For Exam**

Sorting: College: QSHS, Course: Bachelor of Medical Lab Technology, Group: , Course Category: Professional, Sem/Year: 1, Section: , Course Type: Health Science, Branch: .

Total Students : 14

Select	Dues Amount	Received Amount	Balance Amount	IsHos	IsTrans	Student Id	Student Name
<input checked="" type="checkbox"/>	135500.00	68500.00	67000.00	Yes	No	22320008	SHREYA SINGH
<input type="checkbox"/>	67500.00	10000.00	57500.00	No	Yes	22370005	ROHIT KUMAR
<input type="checkbox"/>	46500.00	46500.00	0.00	No	No	22370014	ANSHUL SAINI
<input type="checkbox"/>	79500.00	46500.00	33000.00	No	No	22540001	VANSH SHARMA
<input type="checkbox"/>	62500.00	55000.00	7500.00	No	Yes	22540002	ANSHUL
<input type="checkbox"/>	72500.00	10000.00	62500.00	No	Yes	22540003	SAGAR KUMAR
<input type="checkbox"/>	91500.00	40000.00	51500.00	No	Yes	22540004	KASHISH YADAV
<input type="checkbox"/>	75250.00	10000.00	65250.00	No	Yes	22540005	MAJID
<input type="checkbox"/>	79500.00	40000.00	39500.00	No	No	22540007	ABUZAR
<input type="checkbox"/>	140500.00	25000.00	115500.00	Yes	No	22540008	ABHISHEK KUMAR MAHTO
<input type="checkbox"/>	46500.00	29000.00	17500.00	No	No	22540009	SUMIT PAL
<input type="checkbox"/>	140500.00	75000.00	65500.00	Yes	No	22540010	SAYAM JAMWAL
<input type="checkbox"/>	46500.00	24000.00	22500.00	No	No	22540011	AKSHAT SAINI

Date: 08/10/2022, View, Applicable For Exam, Revert, Close

Show Data: Quantum School of Health Sciences, Server Date: 8/10/2022 1

### 1.2 Upload Study Material-1

LMS system is easy for the subject teachers to upload the study material. They are E-study materials that can be viewed and downloaded by students. The study material helps students to learn by themselves.

**Choose Subject**

Session	Subject	College	Course	SemYear	Branch	Section	Set
2022-23	Industrial Training Seminar(I)	QST	Diploma	5	CSE	N/A	N/A
2022-23	Linux Administration and Network Prt	QST	Master of Computer Applications	1	N/A	N/A	N/A
2022-23	Linux Administration and Network Prt	QST	Master of Computer Applications	1	N/A	N/A	B

Page 1 of 1, View 1 - 3 of 3

**Study Material (E-Resources) Upload**

\* Only documents in pdf, doc, docx, image, zip, rar format can be uploaded.  
\* Study Material (E-Resources) File Size: 5 MB, Other file size 1 MB.  
Note: In case file size is greater than 5 MB then you can break it on parts and upload it part wise like Part 1, Part 2, Part 3, etc.  
System will treat it as only one assignment.  
Use this service only if your assignment attachment is not covering under 5 MB size.

Topic Details: Topic, Selected Topic Details: Topic

### 1.3 Upload Study Material-2

The faculty or the teacher has to enter the topic details and the units of the syllabus accordingly. They need to enter the study material title, and objective overview, upload files if any, and also have the facility to add video content lectures link for the student's convenience.

**Topic Details**

Topic	Unit
1. General use and applications of electricity	unit 1
2. Use and applications of electricity to agriculture, Mechanical & Automobile sector	unit 1
3. Advantages of electrical energy over other forms of energy	unit 1
4. DC Circuits: Introduction to basic terms: charge, current, voltage, power, and energy	unit 1
5. Ohm's law; Kirchhoff's laws	unit 1
6. Star-delta conversions	unit 1
7. AC Circuits: Concept of alternating voltage and current; Introduction to basic terms: cycle	unit 2

Page 1 of 1 View 1 - 36 of 36

**Selected Topic Details**

LinkTitle	Link-Type	Link of Video/Content Lectures	Brief of Video/Content Lectures
-----------	-----------	--------------------------------	---------------------------------

Page 1 of 0 No records to view

Study Material Title:  Objective Overview:  Uploading Date:

Keywords:   No file chosen

**Add Link of Video/Content Lectures**

Video/Content Title:  Video/Content Type:

Link of Videos/Content Lectures:  Brief of Videos/Content of Lectures:

No file chosen

### 1.4 Upload Assignment-1

LMS system gives access to students to view and upload their assignments on time. First, they have to fill in the details like session, course, college, subject, etc, and then add the details regarding the assignment like assignment title, and assignment type, select the submission date, and uploading date, and upload their assignment file by clicking on Choose a file option.

**Quantum University** Learning Management System | LMS | Upload Assignment

**Choose Subject**

Session	Subject	College	Course	SemYear	Branch
2022-23	Industrial Training Seminar(L)	QST	Diploma	5	CSE
2022-23	Linux Administration and Network Programming(S)	QST	Master of Computer Applications	1	N/A
2022-23	Linux Administration and Network Programming Lab(L)	QST	Master of Computer Applications	1	N/A

Page 1 of 1 View 1 - 3 of 3

**Choose Study Material**

**Assignment Upload**

\*Only documents in pdf, doc, docx, image format can be uploaded.  
\*Document Size should be less than 1 MB

Assignment Title:  Submission Date:  Uploading Date:  Marks:   No file chosen

Assignment Type:

## 1.5 Upload Assignment-2

The students can upload their assignments according to their subjects one by one via the LMS system. After logging in through their ids they can enter the details and upload the assignments following the same steps as above.

### Assignment Upload

\*Only documents in pdf, doc, docx, image format can be uploaded.

\*Document Size should be less than 1 MB

Assignment Title:   
Assignment Type:

Submission Date:   
Uploading Date:   
Marks:

### Uploaded Assignment

	Download	Delete	View Study Material	Add Assignment Student	SerialNo	Class	Subject	Type
	<input type="button" value="x"/>	<input type="button" value="x"/>	<input type="button" value="x"/>	<input type="button" value="x"/>				
1			<a href="#">View Study Material</a>	<a href="#">Add Student</a>	EE1306-AS01	Quantum School of Technology / Diploma / 3 / Computer Science and Engineering / N/A / N/A	Basics of Electrical and Electronics Engineering	Assignment

## 1.6 View Assignment

Students can view the assignments assigned to them by logging in through their ids. The assignments can also be viewed by the teachers after they have uploaded them to the software.

**Quantum UNIVERSITY**

Learning Management System | LMS | View Assignment

Mr. SUMIT KATARIA

### Choose Subject

Session:  Odd/Even:

	Session	Subject	College	Course	SemYear	Branch	Section	Set
	<input type="text" value="2022/23"/>	<input type="text" value="Basics of Electrical and Electronics En QST"/>	<input type="text" value="Diploma"/>	<input type="text" value="Computer Science and Engineering"/>	<input type="text" value="3"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
1	<input checked="" type="checkbox"/>	2022-23	Basics of Electrical and Electronics En QST	Diploma	3	CSE	N/A	N/A
2	<input type="checkbox"/>	2022-23	Basics of Electrical and Electronics En QST	Diploma	3	CSE	N/A	N/A
3	<input type="checkbox"/>	2022-23	Electrical and Mechanical Engineering QST	Diploma	3	CE	N/A	N/A
4	<input type="checkbox"/>	2022-23	Electrical and Mechanical Engineering QST	Diploma	3	CE	N/A	N/A
5	<input type="checkbox"/>	2022-23	Basic Electrical and Electronics Enjin QST	Bachelor of Technology	1	N/A	Section-G	N/A
6	<input type="checkbox"/>	2022-23	Basic Electrical and Electronics Enjin QST	Bachelor of Technology	1	N/A	Section-G	N/A
7	<input type="checkbox"/>	2022-23	Basic Electrical and Electronics Enjin QSGS	Bachelor of Science (Hons) in Physics	1	N/A	N/A	N/A
8	<input type="checkbox"/>	2022-23	Basic Electrical and Electronics Enjin QSGS	Bachelor of Science (Hons) in Physics	1	N/A	N/A	N/A
9	<input type="checkbox"/>	2022-23	Electrical & Electronics Workshop (L) UP	Diploma	1	N/A	Section A	N/A
10	<input type="checkbox"/>	2022-23	Electrical & Electronics Workshop (L) UP	Diploma	1	N/A	Section B	N/A

Page 1 of 1
View 1 - 10 of 10

### Type

Type:

	Upload Marks	View Uploaded Answer	Marks	Type	Title	Uploaded	Submitted	Download	Delete
	<input type="text" value="30"/>	<input type="text" value="View Uploaded Answer"/>	<input type="text" value="30"/>	<input type="text" value="Assignment"/>	<input type="text" value="ASSIGNMENT NO-1 : EE1306-AS01"/>	<input type="text" value="03/10/2022"/>	<input type="text" value="07/10/2022"/>	<input type="button" value="Download"/>	<input type="button" value="Delete"/>
1	<a href="#">Upload Marks</a>	<a href="#">View Uploaded Answer</a>	30	Assignment	ASSIGNMENT NO-1 : EE1306-AS01	03/10/2022	07/10/2022		

Page 1 of 1
View 1 - 1 of 1

## 1.7 View Uploaded Answer

The teachers can check the list of the students who have submitted their assignments and can view their uploaded answers. The list of Answer Uploaded Students will appear on the left side whereas Answer Not Uploaded Students will appear on the right side.

Uploaded Answer Details

Total Student: 28    Uploaded Answer: 2    Non-Uploaded Answer: 26

**Answer Uploaded Student**

	View	Download	StudentID	RollNo	Name	Father Name
1	<input type="checkbox"/>		21070021	1	ABHAY CHAUDHARY	SANJAY KUMAR CH
2	<input type="checkbox"/>		21070020	11	MAYANK YADAV	AJEN KUMAR YADA

Page 1 of 1    View 1 - 2 of 2

**Answer Not Uploaded Student**

	StudentID	RollNo	Name	Father Name
1	21070011	2	AMAN KAMBOJ	SANDAY KAMBOJ
2	21070024	3	ANKIT THAKUR	SANDAY THAKUR
3	21070007	4	ANMOL TYAGI	VAISHAV TYAGI
4	22070009	5	AVI TYAGI	VINIT TYAGI
5	21070019	6	BABURAM KUMAR	JANTU PATEL
6	21070045	7	BHUPENDER SINGH	SATISH KUMAR
7	21070013	8	BICKY KUMAR	KAMESHWAR YADAV
8	21070012	10	MAYANK SAHNI	VINOD KUMAR
9	21070001	12	MD ALTAJ RAZA	MD. TALIM ANSARI
10	21070036	13	MOHD SAMAR	LATE MOHD TANJIB
11	21070044	14	MOHD HASSAN ASADI	MOHD ALAMGEER
12	21070039	15	PARAS MANDAL	MOHD HASSAN ASADI
13	21070016	16	RANJEET YADAV	RAN PRASAD YADAV
14	21070027	17	ROHIT GUPTA	RAMESH PARSAD GUPTA
15	21070025	18	SANDIP MANDAL	YUGESWAR MANDAL

Page 1 of 1    View 1 - 26 of 26

Status: --Select--    Remark:    

**Accepted Students**

View	Download	StudentID	RollNo	Name	Father Name
------	----------	-----------	--------	------	-------------

**Rejected Students**

View	Download	StudentID	RollNo	Name	Father Name
------	----------	-----------	--------	------	-------------

## 1.8 Enter Marks for Uploaded Assignments

After the faculty has viewed the assignments submitted by the students, they can go through them one by one and enter marks for the uploaded assignments. The assignment status is shown in two color bars – green which means assignment approved and red which means assignment rejected/pending.

College: QST    Course: Diploma    Sem/Year: 3

Branch: CSE    Section: N/A    Set: N/A

Subject: Basics of Electrical and Electronics Engineering(S)    Type: Assignment    Assignment Title: ASSIGNMENT NO-1 : EE1306-A501

Max Marks: 30

**Assign Marks**

Assignment Status Accepted (Green bar)    Assignment Status Pending/Rejected (Red bar)

	StudentID	RollNo	Name	Father Name	Marks
1	21070021	1	ABHAY CHAUDHARY	SANJAY KUMAR CHAUDHARY	0
2	21070011	2	AMAN KAMBOJ	SANDAY KAMBOJ	0
3	21070024	3	ANKIT THAKUR	SANDAY THAKUR	0
4	21070007	4	ANMOL TYAGI	VAISHAV TYAGI	0
5	22070009	5	AVI TYAGI	VINIT TYAGI	0
6	21070019	6	BABURAM KUMAR	JANTU PATEL	0
7	21070045	7	BHUPENDER SINGH	SATISH KUMAR	0

Page 1 of 1    View 1 - 28 of 28

## 1.9 Assignment View on Student Login

Students can view their assignments by logging in through their ids. They can go to the Assignment section and check for any assignment updates by their faculty.

**Assignment Details**

	Download	Upload	Download Excellent Copy	Employee Name	Submit Date	Submit Start-End Time	Class Subject
1		Uploaded	N/A	HIMANSHU TYAGI	28/09/2022		Programming in C
2		Uploaded	N/A	REENA RAUTHAN	04/10/2022		Object Oriented Concepts
3		Uploaded	N/A	SHILPY SHARMA	04/10/2022		Computer System Peripherals
4		<a href="#">Upload Answers</a>	N/A	SATVEER	10/10/2022		Operating System
5		Uploaded	N/A	SUMIT KATARIA	07/10/2022		Basics of Electrical and Electronics Engineering

Page 1 of 1 View 1 - 5 of 5

**Uploaded Answer Details**

Delete	Download	Employee Name	Submit Date	Submit Start-End Time	Class Subject	Type

## 1.10 Upload Assignment Response from Student Side

Post working on the assignments provided, the students can upload them by choosing the file and uploading it.

**Upload Assignment**

\*Only documents in pdf, doc, docx format can be uploaded. Dont use special characters(eg. #,%,&) in file name or file name should be small.

\*Document Size should be less than 5 MB

No file chosen

## 2. Student's Admit Card & Attendance Management



## 2.1 Student Debarred from ESE

The students who are debarred from the ESE exam, their attendance criteria are recorded by maintaining the details like Report type, session, course type, lecture type, date from, date to, etc. Debarred students are listed with their id number, name, father's name, and subjects they attended.

**Student Debar from Exam (Attendance Criteria)**

Report Type: Debar Details | Session: 2021/22 | Course Type: Computer Applications | Course: Bachelor of Computer Applications | Semester: 4 | Branch: | Group: | Section: |

Lecture Type: | Date From: 01/02/2022 | Date To: 19/05/2022 | Set Debar Criteria: 75 | Is Debar Criteria apply for exam: ☒ | Is Round off Att. %: ☒ | View

**Subject** | **DebarCriteria**

Subject	DebarCriteria
Computer Networks	75
Computer Organization	75
Web Technology	75
C#.Net	75
Computer Networks Lab	75
C#.Net Lab	75
Web Technology Lab	75
Value Added Program IV	75
Data Science Models : Regression, Cla...	75
R Programming	75
J Query & Databases	75
Event Management	75
New Media	75
E-Commerce	75
Start-up Schemes and project prepara...	75
Robotic Industry 4.0	75

**Debar Details**

University RollNo	Student Name	FatherName	Computer Networks(S)	Computer Organization(S)	Web Technology(S)	C
2001311001	AADITYA SAINI	SATYAPAL SIN...	0.00(D)	0.00(D)	0.00(D)	0.
2001311002	AAKASH RAJBHAR	PRAMOD RAJBH...	91.11	96.08	96.97	9.
2001311003	ABHINAV SINGHAL	AMBRISH SING...	77.78	90.20	84.85	7.
2001311004	ABHISHEK BHATT	GANGA PRASA...	62.22(D)	37.25(D)	45.45(D)	3.
2001311005	ABHISHRESTHA TY...	SANJAY TYAGI	15.56(D)	11.76(D)	0.00(D)	2.
2001311006	ADITI SAINI	SATISH SAINI	82.22	72.55(D)	63.64(D)	5.
2001301007	ADITYA RAJ VASHI...	PANKAJ MANI V...	80.00	84.31	81.82	6.
2001311007	AJAY JACOB	RAJEEV JACOB	65.00(D)	70.59(D)	75.76	5.
2001311008	AKASH VERMA	SUNIL KUMAR ...	82.22	86.27	72.73(D)	6.
2001311009	AKSHAY TYAGI	SUDHEER KUMAR	71.11(D)	88.24	96.97	6.
2001311010	AMIT SINGH BHAK...	RAMESH CHAN...	84.44	88.24	78.79	7.
2001311011	ANJALI SINGH	PRATISH KUMAR	77.78	80.39	81.82	6.
2001311012	ANMOL SAINI	RISHI PAL	53.33(D)	43.14(D)	12.12(D)	1.
2001311013	ANMOL TYAGI	ADESH KUMAR	86.67	92.16	75.76	7.
2001311014	ANUKUL TYAGI	NEERAJ TYAGI	48.89(D)	62.75(D)	72.73(D)	4.
2001311015	ANUP KRISHNAN R	K RADHA KRIS...	82.22	86.27	81.82	7.

## 2.2 Admit Card & Verification Letter Generation

Admit cards are generated in the name of the students who have taken admission to the university. While generating the admit card, details of the student are entered like name, course category, college, semester, student type, exam type, gender, admit card type, and so on.

**Admit Card Generation**

Searching | College: Quantum School of Graduate Studies | Year/Sem: 4 | Student Type: REGULAR | Branch: | Exam Type: ESE(End Semester Exam) | Course Category: Professional | Gender: | Course Type: Commerce and Finance | Admit Card Type: AdmitCard | Course: Bachelor of Commerce | Is Pass/Not Promoted Student: ☐

**Sorting**

Student Name: | Search Roll No: | Range From: | Range To: | Is Roll No Wise: ☐

Select All | UnSelect All | Number of Student's: 50

- 2003301001 : AARTIKA KUMARI
- 2003301003 : GAURAV SINGH
- 2003301004 : HIMANSHI ROHILLA
- 2003301005 : HUSSAIN ALI
- 2003301006 : JESSICA PASRICHA
- 2003301007 : KAMAL SAPRA
- 2003301008 : MANSI SHAH
- 2003301009 : NEHA SHARMA

Generate Report | Close

## 2.3 Admit Card



The admit card picture below shows the details of the student of the university including the Student's Name, Course, Roll No, Exam Type, etc.

**Quantum University**  
Roorkee - Dehradun Highway, Mandawar, Roorkee, Uttarakhand 247167  
www.quantumuniversity.edu.in

**ADMIT CARD** Exam Type : ESE(End Semester Exam 2021-22 Year/Semester : 4

Name of the Student : AARTIKA KUMARI  
Father's Name : MANOJ KUMAR GUPTA  
Enrollment No. : QU2003301001 Roll No. : 2003301001  
Course : Bachelor of Commerce  
Status of Student : Regular Sex : Female  
Papers Allowed : BC3401, BC3402, BC3406, BI3404, MS3443, GP3401, VP3401, CS3015, CS3016  
Papers Debarred :  
Student's Signature  
Note : 1. The admit card is subject to the eligibility of the candidate for the examination.  
2. Student will not be allowed to appear in the examination in the subject not mentioned above. Students failing to bring Admit Card will not be permitted to appear in the examination.

Issuing Authority Controller of Examination

## 2.4 Verification Letter

Students' verification forms contain information such as their Name, Subject Code, Subject, Roll Number, Enrollment Number, Signature of the candidate, Signature of the Invigilator, etc. The verification form is also known as the subject examination attendance form.

**Quantum University**  
Roorkee - Dehradun Highway, Mandawar, Roorkee, Uttarakhand 247167  
www.quantumuniversity.edu.in

**Verification / Attendance Form 2021-22**

Name of the Student : AARTIKA KUMARI  
Father's Name : MANOJ KUMAR GUPTA  
Enrollment No. : QU2003301001 Roll No. : 2003301001  
Course : Bachelor of Commerce  
Status of Student : Regular Sex : Female  
Exam Type : ESE(End Semester Exam) Year/Semester : 4  
Student's Signature

S.No	Date of examination	Room No.	Regular/ Private	Sub Code	Subject Name	Booklet No	Signature of Candidate	Signature of Invigilator
1				BC3401	Income Tax and E-Filing			
2				BC3402	Management Accounting			
3				BC3406	Principles and Practices of Corporate Governance			
4				BI3404	Principles and Practices of Banking			

## 2.5 Attendance Sheet and Award List Generation

The attendance sheet or award list can be created easily by entering the details such as Subject, Subject Type, College, Sem, Course Category, and Paper.

**Award List**

Subject Type: Normal

Exam Type: Main Parity:

College: Quantum School of Technology

Course Category: Professional Course Type: Engineering

Course: Bachelor of Technology

Semester/Year: 6

Branch: CSE

Group: Section:

Subject: Artificial Intelligence

Paper:

Attendance Sheet Award List Close

Show Data Quantum School of Technology Server Date :: 11/10/2022

## 2.6 Attendance Sheet of ESE

In the attendance sheet of ESE, Students' Names, Roll Numbers, Signatures, Subjects, and Course details are recorded.

Quantum University  
Roorkee - Dehradun Highway, Mandawar, Roorkee, Uttarakhand 247167  
www.quantumuniversity.edu.in

**Attendance Sheet**  
**Even Semester Practical Exam 2021-22**

Subject Code: CS3601 Course: Bachelor of Technology Semester: 6  
Subject: Artificial Intelligence Branch: CSE  
Section: Exam Type: Main

S.No.	University Roll No.	Name of the Student	Father's Name	SIGNATURE
1	1801301024	MOHIT BHARDWAJ	AJAY KUMAR SHARMA	D6
2	1901301001	ABHINAV TYAGI	SANJAY TYAGI	
3	1901301002	ADARSH MISHRA	VIRENDRA KUMAR MISHRA	
4	1901301003	ADITYA	DHANANJAY KUMAR	
5	1901301004	ADITYA MALKANI	BHUWAN CHANDRA MALKANI	
6	1901301006	AJAY S	K.SHANKAR	
7	1901301008	AKSHIT TOMAR	NRIPENDRA SINGH	
8	1901301009	AMAN RAI	MANOJ RAI	
9	1901301010	AMAN SINGH CHAUHAN	ARUN KUMAR	
10	1901301012	ANIKET RAJ	PRAMOD KUMAR SINHA	

Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 100%

### 3. To Maintain Secrecy and Confidentiality

#### 3.1 Answer Book Code Generation

The answer book code is generated by entering a few details of the student like course type, subject type, exam type, semester, branch, etc. Once you have filled in all the information, click on the generate button that will further display the answer book codes of the students.

**Answer Book Code Generation**

Session :: 2021/22 User :: Exam Cell

**Form Fields:**

- Subject Type: Normal
- Exam Type: Main
- College: Quantum School of Technology
- Course Category: Professional
- Course Type: Engineering
- Course: Bachelor of Technology
- Semester/Year: 6
- Branch: CSE
- Group: [Empty]
- Section: [Empty]
- Subject: Artificial Intelligence
- Paper: [Empty]

**Buttons:** Generate Label(s), Generate, Delete, Close

Enrollment No.	RollNo	AnswerBookCode	Student Name	Father Name
QU1801301024	1801301024	337535	MOHIT BHARDWAJ (DB)	AJAY KUMAR SHAR
QU1901301001	1901301001	268363	ABHINAV TYAGI	SANJAY TYAGI
QU1901301002	1901301002	749032	ADARSH MISHRA	VIRENDRA KUMAR
QU1901301003	1901301003	641512	ADITYA	DHANANJAY KUMA
QU1901301004	1901301004	750608	ADITYA MALKANI	BHUWAN CHANDR
QU1901301006	1901301006	607409	AJAY S	K.SHANKAR
QU1901301008	1901301008	375255	AKSHIT TOMAR	NRIPENDRA SINGH
QU1901301009	1901301009	442350	AMAN RAI	MANOJ RAI
QU1901301010	1901301010	107184	AMAN SINGH CHAUHAN	ARUN KUMAR
QU1901301012	1901301012	745012	ANIKET RAJ	PRAMOD KUMAR S
QU1901301013	1901301013	468498	ANSH KUMAR	SATISH KUMAR
QU1901301014	1901301014	269681	ARGHYA NATH	SUBRATA NATH

Show Data Quantum School of Technology Server Date :: 11/10/2022

#### 3.2 Answer Book Code Label Generation

The screenshot below shows the answer book codes generated for the students.

**Report Viewer**

Subject :- Artificial Intelligence  
Subject Code:- CS3601  
Branch :- CSE  
Course:- Bachelor of Technology  
Year/Sem :- 6  
Section:-

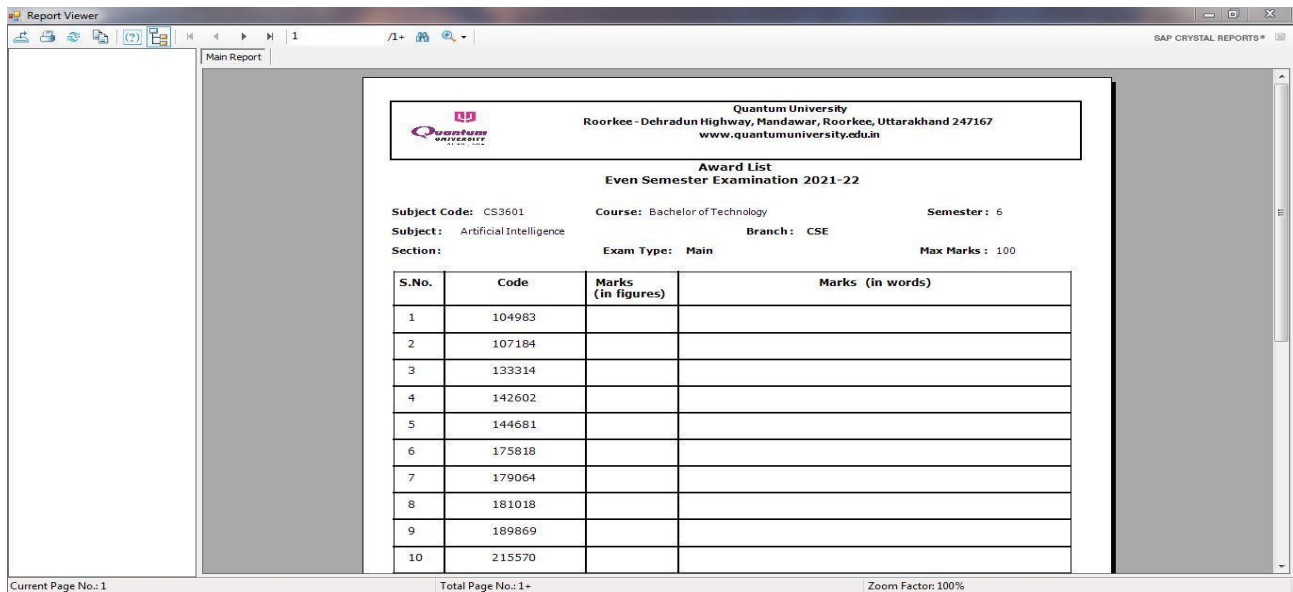
Student Name	RollNo	AnswerBookCode
MOHIT BHARDWAJ (DB)	1801301024	337535
ABHINAV TYAGI	1901301001	268363
ADARSH MISHRA	1901301002	749032
ADITYA	1901301003	641512
ADITYA MALKANI	1901301004	750608
AJAY S	1901301006	607409
AKSHIT TOMAR	1901301008	375255

Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 100%

## 4. Award List & Examination Analysis

### 4.1 Award List of ESE

Semester wise Award List is created by the administration which keeps the record of the students regarding their Subject Code, Roll No, Enrollment No, Semester, and also includes the marks received by the students in their subjects.



Report Viewer

Quantum University  
Roorkee - Dehradun Highway, Mandawar, Roorkee, Uttarakhand 247167  
www.quantumuniversity.edu.in

**Award List**  
**Even Semester Examination 2021-22**

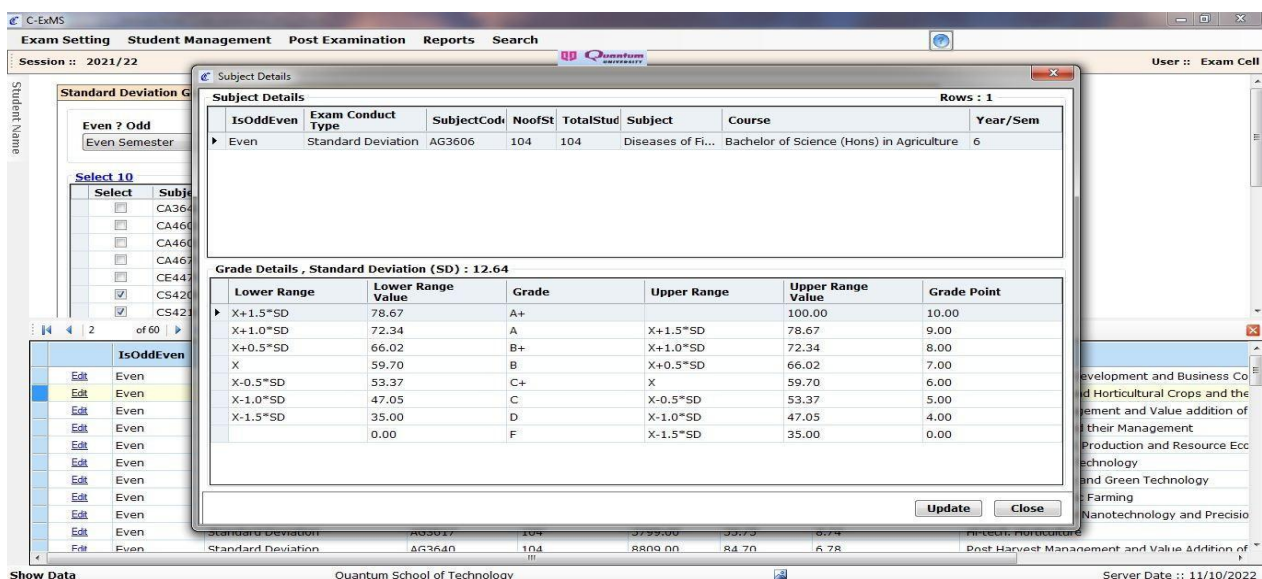
Subject Code: CS3601 Course: Bachelor of Technology Semester: 6  
Subject: Artificial Intelligence Branch: CSE  
Section: Exam Type: Main Max Marks: 100

S.No.	Code	Marks (in figures)	Marks (in words)
1	104983		
2	107184		
3	133314		
4	142602		
5	144681		
6	175818		
7	179064		
8	181018		
9	189869		
10	215570		

Current Page No.: 1 Total Page No.: 1- Zoom Factor: 100%

### 4.2 Standard Deviation

During the calculation of the standard deviation, subject details like subject code, course, semester, odd/even semester, and total students are entered. Below is a grid displaying the Lower Range, Lower Range Value, Grade, Upper Grade, Upper Range Value, Grade Points, etc.



C-ExMS

Exam Setting Student Management Post Examination Reports Search

Session :: 2021/22 User :: Exam Cell

**Subject Details**

IsOddEven	Exam Conduct Type	SubjectCode	NoofSt	TotalStud	Subject	Course	Year/Sem
Even	Standard Deviation	AG3605	104	104	Diseases of Fi...	Bachelor of Science (Hons) in Agriculture	6

**Grade Details, Standard Deviation (SD) : 12.64**

Lower Range	Lower Range Value	Grade	Upper Range	Upper Range Value	Grade Point
X+1.5*SD	78.67	A+	X+1.5*SD	100.00	10.00
X+1.0*SD	72.34	A	X+1.0*SD	78.67	9.00
X+0.5*SD	66.02	B+	X+0.5*SD	72.34	8.00
X	59.70	B	X	66.02	7.00
X-0.5*SD	53.37	C+	X-0.5*SD	59.70	6.00
X-1.0*SD	47.05	C	X-1.0*SD	53.37	5.00
X-1.5*SD	35.00	D	X-1.5*SD	47.05	4.00
	0.00	F	X-1.5*SD	35.00	0.00

Update Close

Quantum School of Technology Server Date :: 11/10/2022

## 5 Online Internal & External Quiz Management

### 5.1 Online Exam Shift Creation

The Examination administration creates an online shift by feeding in details such as Session, Shift Caption, Exam Schedule, Shift Serial, Time From, and Time To.

The screenshot shows the 'Exam Schedule Shift' form. The top navigation bar includes the Quantum University logo and the user 'Er. VISHAL VIG'. The left sidebar lists navigation options: Reports, Student Management, Exam, Online Exam, Marks Entry, and Master. The main form area has the following fields:

- Session: 2022/23
- University: QU
- Exam Schedule: LAB QUIZ-1 (ODD SEM 2022-23)
- Shift Caption: (empty)
- Shift Serial: 1
- Time From: HH:MM AM
- Time To: HH:MM AM

Buttons for 'Reset' and 'Save' are present. Below the form is a table titled 'Exam Schedule Shift Details' with columns: Exam Schedule Caption, Shift Caption, Session, and University. The table contains 10 rows of data for shifts 1 through 10.

### 5.2 Online Exam Subject Schedule

During the creation of an online exam subject schedule, the following details are entered: Subject Details, Subject List, Subject Scheduled Details, Course, Sem, College, Branch.

The screenshot shows the 'Subject Scheduled' form. The top navigation bar includes the Quantum University logo and the user 'Er. VISHAL VIG'. The left sidebar lists navigation options: Reports, Student Management, Exam, Online Exam, Marks Entry, and Master. The main form area has the following fields:

- Session: 2022/23
- University: QU
- Exam Schedule: LAB QUIZ-1 (C)
- Course: Bachelor of T
- Semester: 3
- Branch: CSE
- Group: (empty)

A 'View Subject' button is present. Below the form is a table titled 'Subject Scheduled Details' with columns: Subject, Subject, Exam Date, and Shift. The table contains 4 rows of data for subjects 1 through 4.

Subject	Subject	Exam Date	Shift
1	Oracle/SQL Server Lab	01/10/2022	03:00 PM - 04:00 PM
2	Data Structure Programming	21/09/2022	03:30 PM - 04:30 PM
3	Linux and Open Source Lab	21/09/2022	04:00 PM - 05:00 PM
4	Digital Electronics Lab	27/09/2022	02:30 PM - 03:30 PM



### 5.3 Online MCQ-based Exam Quiz Schedule

An Online MCQ exam quiz is scheduled by entering the following details Course Details, Number of Questions, No of Questions To View(Theory), No of Questions To View (Practical), Exam Type, Caption, etc. The Exam Schedule details are provided in the grid.

	View IP Address	Session	University	Even/Odd	Exam Type	Sessional Counter	
1	N/A	2020-21	Quantum University	Odd	Teacher Assessn		MID-SEM-EXAM-OCT-2020(ODD)
2	N/A	2020-21	Quantum University	Odd			MOCK -TEST-2020-OCT
3	N/A	2020-21	Quantum University	Odd	Teacher Assessn		END-SEM-DEC-2020(ODD)
4	N/A	2020-21	Quantum University	Odd	End-Term		MID-SEM-EXAM-FEB-2021(ODD, FIRST YEAR)

### 5.4 Online MCQ Question Paper Uploading

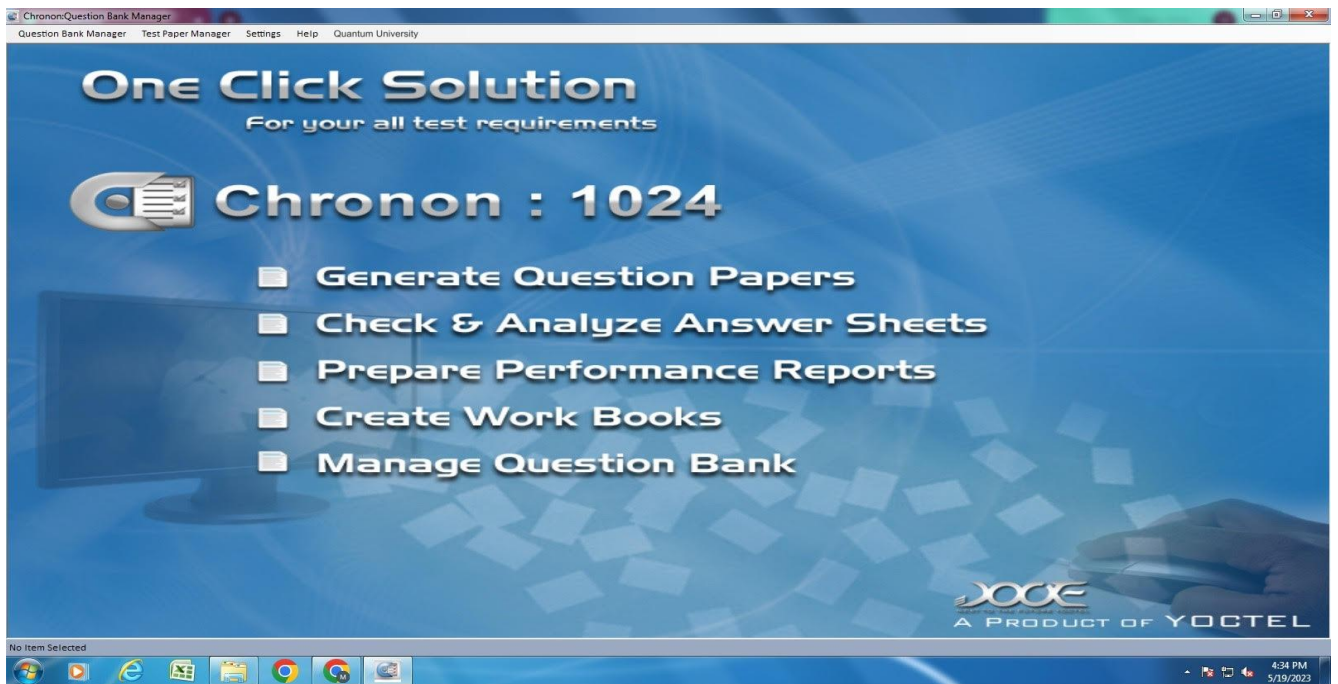
As soon as the schedule is created, the MCQ question paper is uploaded using the examination system.

## 6 Automatic Question Bank & Question Paper Generation

An Automated process of Question Paper Generation system is used which is fast, randomized, and secure. It helps faculties, teachers, or mentors to generate question papers for their classes.

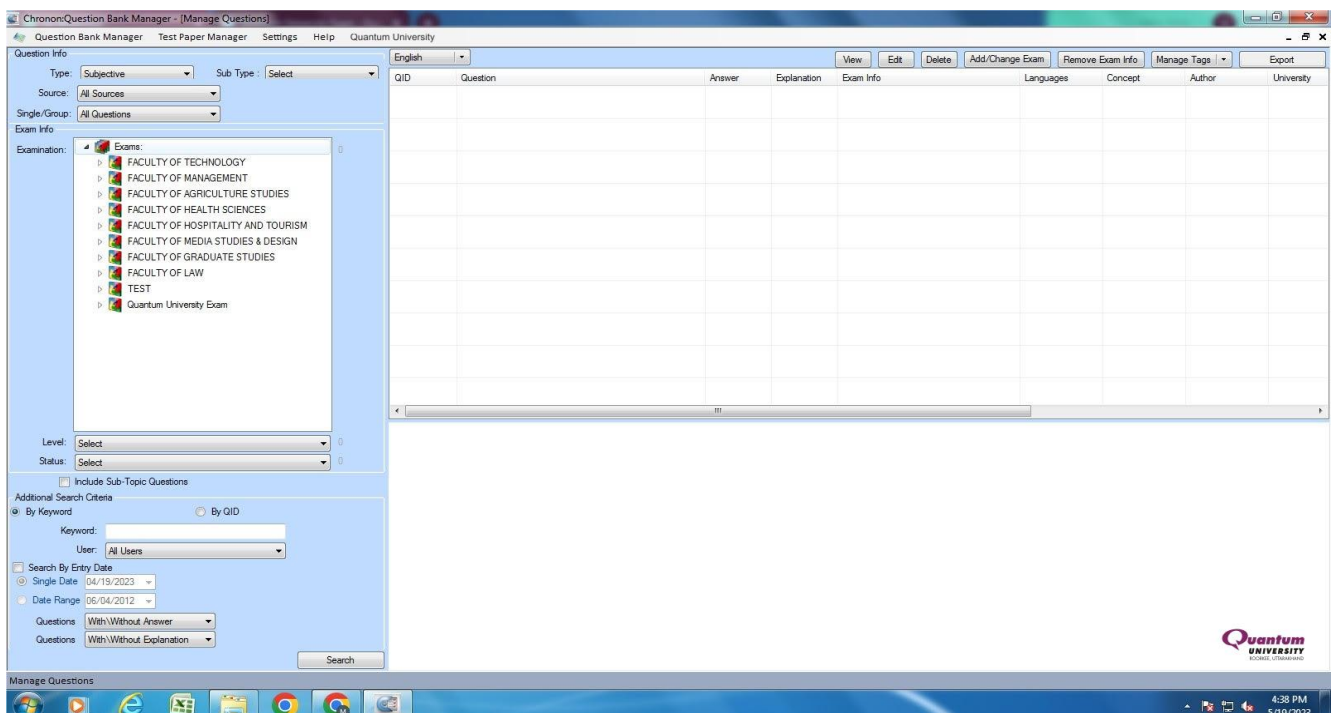
### 6a - Software being used to generate End Semester Exams Question Papers





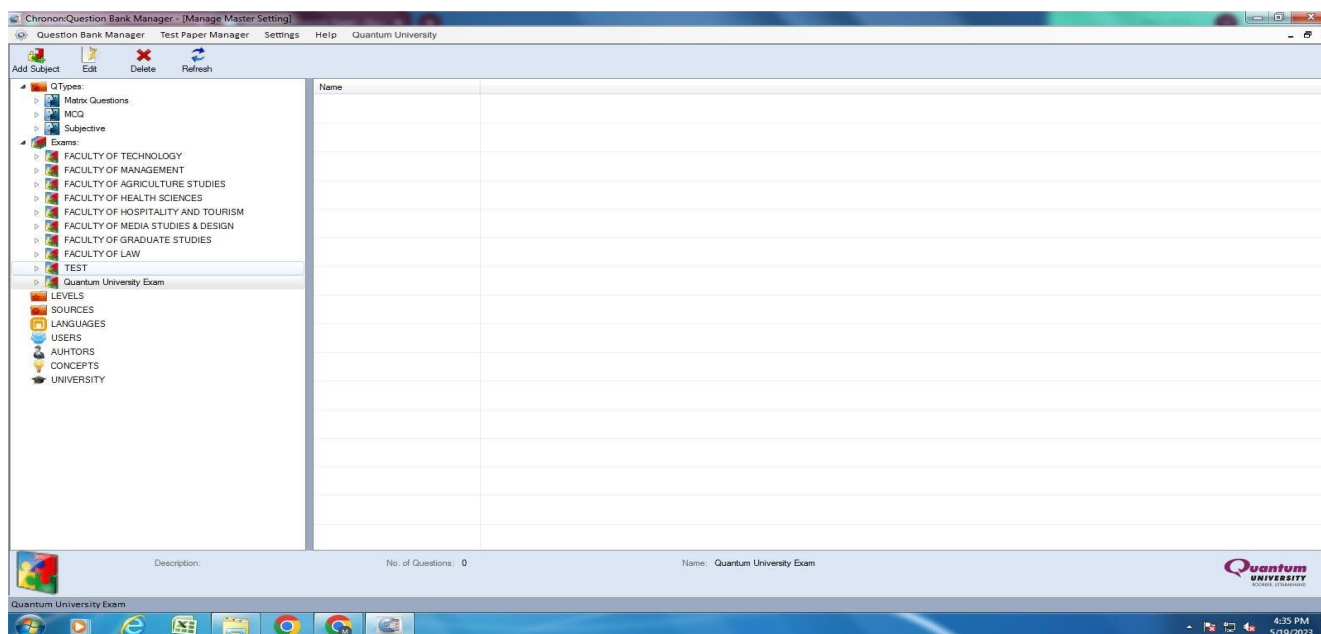
With the Chronon Question Bank Manager software, teachers and staff can effortlessly create customized question papers, efficiently evaluate answer sheets, generate insightful performance reports, and effectively manage the question banks.

## 6.1 - Set the different Faculties and departments in the university, plus define various subjects in the departments



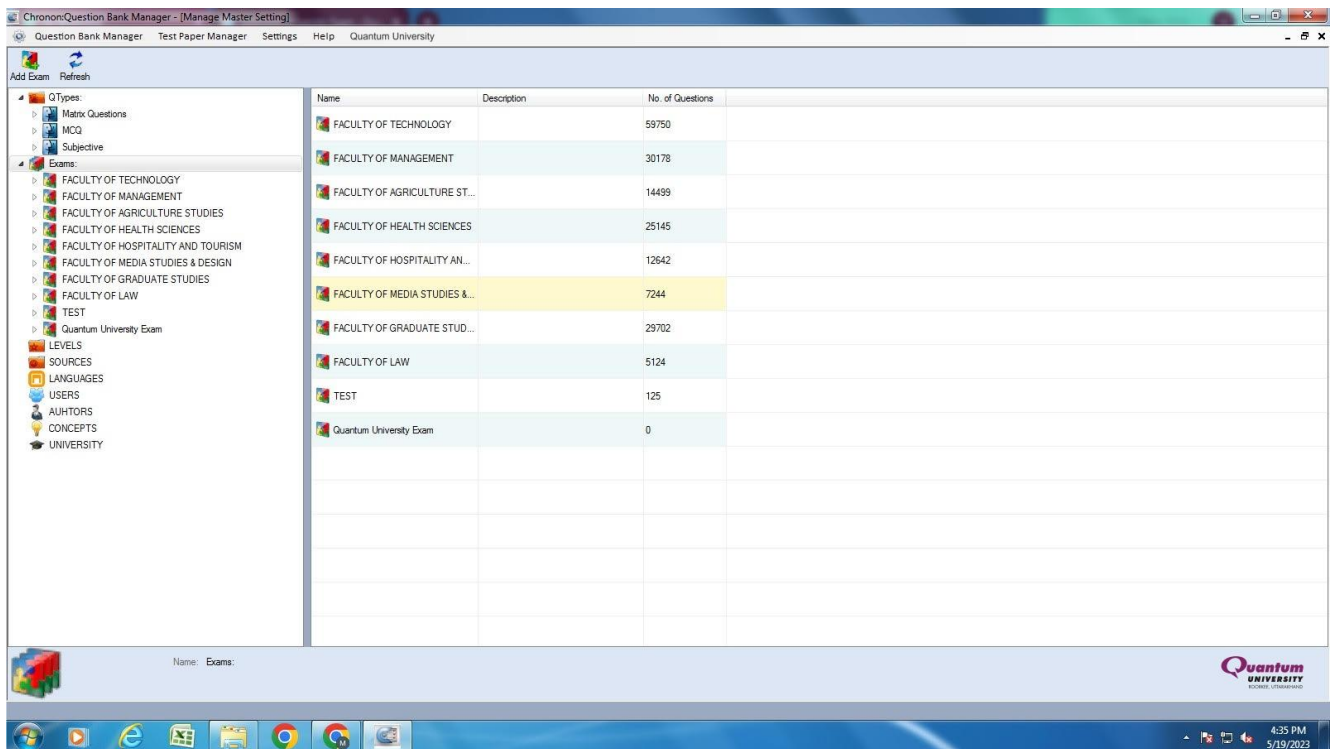
The Manage Question page, as depicted in the screenshot above, provides a complete overview of the question paper details. It offers valuable insights such as the Type of questions, whether they are Subjective or Objective, as well as the Examination category, which encompasses various department exams like technology, graduate studies, agricultural studies, and more. In addition, it includes information about the Subject Type and Level of Exam, so faculty can organize and categorize questions more efficiently.

## 6.2 - Set the various levels of Questions that will be updated in the system



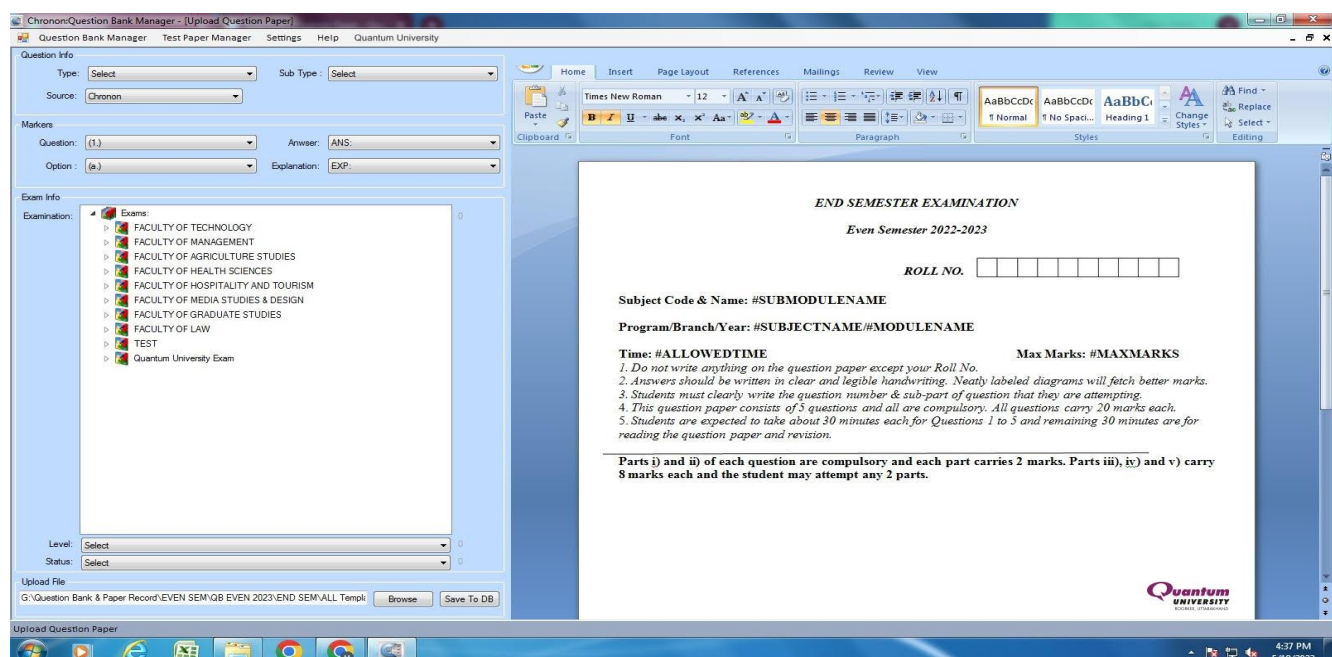
Within the software's Manage Master Setting feature, teachers and staff have access to a range of subcategories that helps in the efficient customization of the question paper. These subcategories include Q-Types, Levels, Exams, Sources, Languages, and more. To create question papers with varying levels of difficulty, teachers simply need to click on the level category. This action enables them to effortlessly generate question papers tailored to different proficiency levels, ensuring a well-rounded assessment that meets the specific needs of their students.

## 6.3 - Upload the questions in the system in the form of a question bank to generate the question papers randomly.



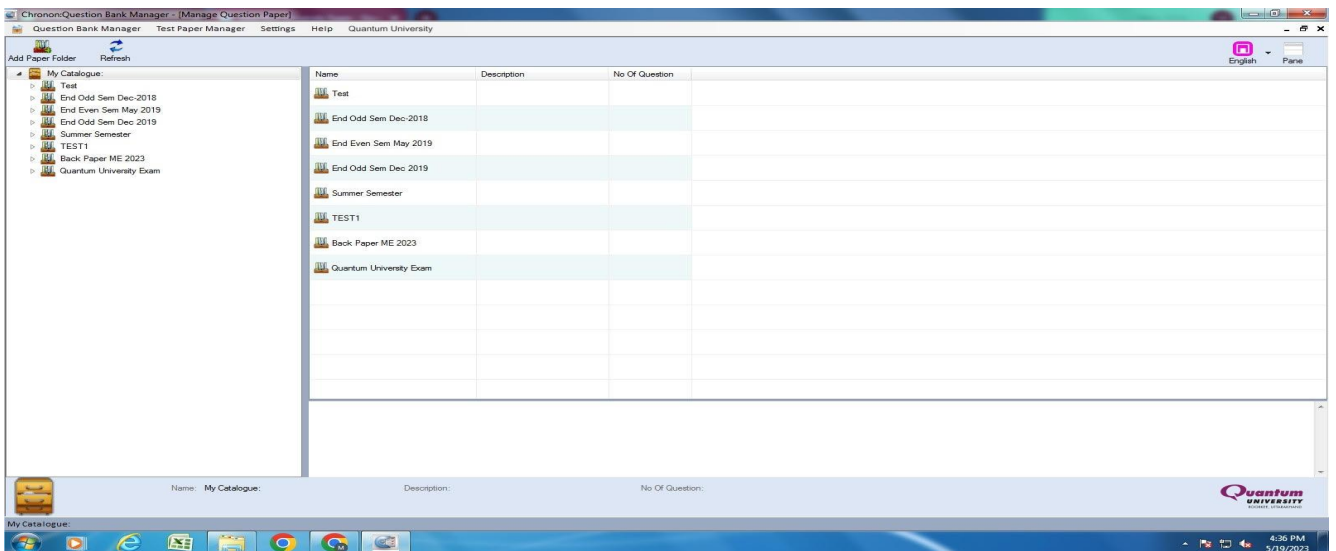
In the Manage Master Setting feature, you will find a category named - 'Exams' which assists teachers in setting department-wise question papers. As depicted in the screenshot above, you can observe that different departments have successfully generated multiple questions within their respective domains. This functionality empowers faculties to upload questions as a form of question bank and effortlessly create customized question papers for the student's convenience.

#### 6.4 - Setting the temple of the Question paper to be generated in the required format.



As depicted in the screenshot above, the format of the question paper showcases all the details that were previously inputted by the teachers during the initial steps. This question paper format encompasses elements such as Subject Code, Maximum Marks, Time Allotted, Roll Number, Program, Branch, Year, and more, closely resembling the structure typically seen in semester exams. By ensuring that the format aligns with the requirements of the examination, the software empowers teachers to create question papers that abide by the standard framework expected in academic assessments.

## 6.5 - Generating the Question Papers randomly



In the final step, teachers need to generate the question paper after filling in all the necessary exam and question details. Once the questions are inputted in the required format, teachers can conveniently save the question papers and access them at any time from the designated folder. The screenshot showcases a helpful feature called "My Catalogue," which displays the list of question papers generated by each domain teacher. This functionality facilitates easy browsing and retrieval of question papers, allowing teachers to quickly locate and utilize their previously created assessments whenever needed.