

# Quantum University, Roorkee



6.5.2	<p>Institution has adopted the following for Quality assurance:</p> <ol style="list-style-type: none"><li>1. Academic and Administrative Audit (AAA) and follow up action taken</li><li>2. Conferences, Seminars, Workshops on quality conducted</li><li>3. Collaborative quality initiatives with other institution(s)</li><li>4. Orientation programme on quality issues for teachers and students</li><li>5. Participation in NIRF and other recognized ranking like Shanghai Ranking, QS Ranking Times Ranking etc</li><li>6. Any other quality audit recognized by state, national or international agencies</li></ol>
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## SAMPLE ACADEMIC AUDIT REPORT

Academic Year 2021-22

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# **Academic Audit Report**

**Session: 2021-22**

**Department of Law**

**Quantum School of Law**

**Quantum University, Roorkee**

## QUANTUM UNIVERSITY, ROORKEE

### Academic Audit Report

2021-22

(Filled in Performa to be submitted to the committee in both soft and hard copy)

Session: 2021-22

School: Quantum School of Law

Name of the Department: Department of Law

Name of Programs (Offered): Integrated Bachelor of Arts and Bachelor of Law (Hons)  
Communication

Integrated Bachelor of Business Administration and Bachelor of Law (Hons)

Date of Audit: 27/09/2021

S.No.	Audit Criteria	Self Appraisal of Department	Auditor's Rating	Auditor's Recommendations
<b>A. Curriculum and Teaching Learning Process</b>				
1	Number of course files audited	16	4	Coordinator should see the rest of the files carefully
2	Percentage of courses where lesson plan was created, approved and uploaded on ERP	100%	4	Sufficient
3	Number of courses in which the lectures are conducted as per Lesson Plan	96%	4	It is OK.
4	Percentage of Lectures (in all courses) with ICT Tools	55%	3	Satisfactory

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5	Percentage of Lecture which demonstrated experiential, participative and problem solving strategies	58%	3	Use practical methods & different approaches in lectures to demonstrate different learning strategies
6	Percentage of courses where CO-PO mapping is on ERP	100%	4	Satisfactory
7	Percentage of Course where teaching material is uploaded on QLRC/QMS before the commencement of classes	70%	3	Need improvement
8	Percentage of courses whose question-banks were evaluated and moderated by sub specialty Group	100%	4	Satisfactory
9	Percentage of courses in which 'Assignment-1' is mapped with CO-Outcome and Bloom's Taxonomy	75%	3	Prior review is required by SSG & HOD's
10	Percentage of courses in which 'Assignment-2' is mapped with Experiential/Participative Learning/ Problem Solving and assessed by the Sub Specialty Group	50%	2	map with experiential or participative learning. Use problem solving approaches
11	Percentage of courses in which Quizzes are mapped with CO-Outcome and Bloom's	95%	4	It is OK.

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	Taxonomy and assessed by Sub Specialty Groups			
12	Quality of ESE Question Papers as per mapping and Bloom's Taxonomy, Please rate on a scale of 0-4	2.6	2	Give more real life problems relevant to the course
13	Quality of projects assigned to students in the beginning of semester, Please rate on a scale of 0-4	2.2	2	Improve the quality as per industries demands
14	Percentage of courses where all listed practical were conducted as per time table	82%	4	OK.
15	Quality of Lab Manuals and Procedures, Please rate on a scale of 0-4	2.3	2	Need improvement
16	How many VACs were conducted/planned in the session	2	2	Satisfactory
17	Performance of teachers in uploading course material on QLRC, Please rate on a scale of 0-4	3	3	Regular monitoring is required and upload as much possible study materials.
18	Activities planned / executed as per policy of slow and fast Learners, Please rate on a scale of 0-4	3.5	3	Need improvement. Impact analysis is required.
19	Students' and teachers' feedback analyzed and ATR prepared	100%	4	Satisfactory

  
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**B: Evaluation Process**

20	Quality of evaluation in Assignments and Mid Semester Examination, Please rate on a scale of 0-4	3.7	3	Need modifications & grade evaluation should be appropriate.
21	Quality of Projects submitted by the students, Please rate on a scale of 0-4	2	2	It must be according to the given format & should be well documented.
22	Quality of Assessment of the Projects (adhering the university policy), Please rate on a scale of 0-4	2.6	2	must be access by some external members from reputed institutes or industries
23	Quality of Lab Projects and Reports, Please rate on a scale of 0-4	2.6	2	Need improvement. please ensure the quality of reports & projects according to market demand.
24	Percentage of the courses where pass percent is below 70 %	13%	2	Try to improve it and use some other methodology in teaching

**C: Co-Curricular Activities**

25	Percentage of activities not conducted as per <b>Event Calendar</b> of the Department	15%	3	It can be improve. to according to Academic Calendar
26	Percentage of Event Calendar activities reported to Press Club/ ERP	96%	4	Satisfactory but it can be increase.

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27	Activities planned / executed as per policy of Career Counseling , Please rate on a scale of 0-4	3.4	3	Need improvement
<b>D: Student Support</b>				
28	Activities planned / executed as per Mentor Mentee Policy , Please rate on a scale of 0-4	3.6	3	Give more emphasis on these meetings
29	Appointment of CRs (Y/N)	YES	4	very good
30	Frequency of interactions of CRs with Director/Vice Chancellor	2.5	2	satisfactory
31	Student's orientation before the beginning of Classes	100%	4	It is a good practice.
<b>F: Governance and Best Practices</b>				
<p>Develop a comprehensive risk management framework and integrate it into strategic planning.</p> <p>Develop sustainability policies and practices that align with the organization values and long-term goals.</p> <p>Regularly review and update governance policies and practices to adapt to changing circumstances.</p> <p>Develop a code of conduct and ethics policies, and ensure that employees are aware of and adhere to them.</p> <p>Establish mechanisms for reporting and addressing ethical violations or misconduct.</p>				
32	<b>Strength of the Department</b> <ul style="list-style-type: none"> <li>Well defined process to develop and upgrade its curriculum through its statutory bodies viz Board of studies and Academic Council.</li> <li>Feedbacks on curriculum are regularly taken, analyzed.</li> <li>Outcome based mapping of curriculum with well defined level PO, PSO, CO are listed.</li> <li>Regular revision, inclusion of industry based courses are taken by BOS.</li> </ul>			
37	<b>Weakness of Department</b>			

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		<ul style="list-style-type: none"> <li>Percentages of teachers involved in research work are to be increased</li> <li>PhD Faculty ratio need to be further improved.</li> <li>Need for a dedicated effort to improve student diversity and enroll students from various states of the country.</li> </ul>		
38	<b>New Initiatives taken by the Department</b> Integrating technology and innovation into the curriculum, such as offering courses on legal tech, AI in law, and other emerging legal trends. Implementing initiatives to promote diversity, equity, and inclusion within the law school community, including efforts to recruit and support underrepresented students and faculty. Building relationships and partnerships with legal practitioners, law firms, and organizations to provide students with networking opportunities and access to real-world legal experiences.			
39	Planning for the next semester attached (Y/N)	YES	YES	YES

**Recommendations :**

- University officials must keep on promoting the cause of research and innovation so as to meet the emerging needs of law department.
- more number of faculty members should contribute toward knowledge creation in addition to knowledge dissemination.
- Engage innovative teaching methodologies to develop the argumentative skills of students.
- Encourage research oriented skills of students.
- Foster employability skills of students.

(Signature of the HOD with seal)

*Ajain*

HEAD OF DEPARTMENT  
Dept. of Law  
Quantum University, Roorkee

(Signature of Auditor with Name & Date)

1. Dr. Manish Srivastava *MS*
2. Mr. Sangeet Kumar *SK*
3. Dr. Vinay Pal Singh *VP*

  
 Registrar  
 Quantum University

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*[Signature]*

*[Signature]*

**Quantum School of Law**

Department of Law

Session: 2021-22

**ACADEMIC & ADMINISTRATIVE AUDIT**

**Action Taken  
Report**

**Introduction**

The organization conducted out an Academic and Administrative Audit in 2021-21 that consists of the academic, administrative and student-focused activities of the University. The following activities were taken into consideration and meticulously executed to improve the institution's quality.

Sl. No.	Suggestions	Action Taken
1.	Encourage courses that focuses on legal tech, AI in law, and other emerging legal trends	The department has already taken into consideration and attempted to modified the curriculum by engaging legal tech, importance of AI in law, and sp on.
2.	Introduce research oriented projects at the undergraduate level	Research initiatives at the UG level are introduced. Small research projects are encouraged for undergraduate students to undertake.
3.	Encourage faculty to engage innovative	Management organizes regular workshops, seminars and training sessions on innovative teaching techniques and technology.

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	teaching methods	
4	Strengthen career counseling policy	Career counseling department are well set up that assists students in finding internships and opportunities.
5	Engage a diverse range of ICT tools that must consist of on legal tech, AI in law, and other emerging legal trends.	The institution keeps evolving the technological landscape for improving productivity and communication in the digital age.
6	Foster Interdisciplinary Approach of Education	The university promotes interdisciplinary studies, allow students to explore diverse perspectives and integrate knowledge from various fields.
7	More employability skill components to be added in the Curriculum	Compulsory employability skill-based papers incorporated in the Curriculum.

### Conclusion


Based on the recommendations made by the AAA team, all the necessary steps have been taken in order to improve the institution's quality.

### Signature

  
Dr. Manish Siivastava  
Dean  
Faculty of Business ad Mgt.  
Quantum University


  
Sangew Kumar  
Assistant Prof.  
Doon College

  
Registrar  
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Dr. Vinay Pal Singh  
Assistant Professor  
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# **Academic Audit Report**

**Session: 2021-22**

**Department of Paramedical Sciences**  
**Quantum School of Health Sciences**  
**Quantum University, Roorkee**

## QUANTUM UNIVERSITY, ROORKEE

### Format for Academic Audit

(Filled in Performa to be submitted to the committee in both soft and hard copy)

Session: 2021-22

School: Quantum School of Health Sciences

Name of the Department: Department of Paramedical Sciences

Name of Programs (Offered): Bachelor of Medical Laboratory Technology

Date of Audit : 27/09/2021

S.No.	Audit Criteria	Self Appraisal of Department	Auditor's Rating	Auditor's Recommendations
<b>A. Curriculum and Teaching Learning Process</b>				
1	Number of course files audited	8	2	Audit all the course file to ensure quality & accuracy of content
2	Percentage of courses where lesson plan was created, approved and uploaded on ERP	80%	4	Satisfactory
3	Number of courses in which the lectures are conducted as per Lesson Plan	85%	4	Keep track of how often the lesson plans and lecture line up
4	Percentage of Lectures (in all courses) with ICT Tools	70%	3	Conduct an initial assessment to determine current percentage of lectures using ICT tools
5	Percentage of Lecture which demonstrated experiential, participative and problem solving strategies	60%	3	Lecture should be stressed more on experiential, participative and problem solving teaching strategies.
6	Percentage of courses where CO-PO mapping is on ERP	75%	3	Satisfactory
7	Percentage of Course where teaching material is uploaded on QLRC/QMS before the commencement of classes	75%	3	Ensure that all the teaching materials should be uploaded on QLRC/QMS so as to maintain transparency.

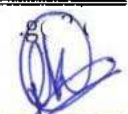
8	Percentage of courses whose question-banks were evaluated and moderated by sub specialty Group	100%	4	Need to analyses the BL level in a more rigor manner
9	Percentage of courses in which 'Assignment-1' is mapped with CO-Outcome and Bloom's Taxonomy	75%	3	Satisfactory, when assigning to the students, more critical reviews are recommended
10	Percentage of courses in which 'Assignment-2' is mapped with Experiential/Participative Learning/ Problem Solving and assessed by the Sub Specialty Group	65%	3	Prior reviews is required by SG
11	Percentage of courses in which Quizzes are mapped with CO-Outcome and Bloom's Taxonomy and assessed by Sub Specialty Groups	75%	3	Satisfactory
12	Quality of ESE Question Papers as per mapping and Bloom's Taxonomy, Please rate on a scale of 0-4	2.8	3	Mapped as per BL's Taxonomy
13	Quality of projects assigned to students in the beginning of semester, Please rate on a scale of 0-4	2.8	3	Describe the goals of the course and the learning outcomes to upgrade quality of the projects
14	Percentage of courses where all listed practical were conducted as per time table	70%	3	Satisfactory
15	Quality of Lab Manuals and Procedures, Please rate on a scale of 0-4	65%	3	Provide a frame work for maintaining the lab material that support intended education goals.
16	How many VACs were conducted/planned in the session	01	Sufficient number	Satisfactory
17	Performance of teachers in uploading course material on QLRC, Please rate on a scale of 0-4	2.4	3	Continuous monitoring may be done in uploading course material by faculty member.

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18	Activities planned / executed as per policy of slow and fast Learners , Please rate on a scale of 0-4	2.8	3	Impact analysis required, Need improvement
19	Students' and teachers' feedback analyzed and ATR prepared	100%	4	Satisfactory
<b>B: Evaluation Process</b>				
20	Quality of evaluation in Assignments and Mid Semester Examination , Please rate on a scale of 0-4	2.6	2	Satisfactory, need more transparency and accuracy
21	Quality of Projects submitted by the students , Please rate on a scale of 0-4	2	2	Need more mentoring projects must be authentic
22	Quality of Assessment of the Projects ( <i>adhering the university policy</i> ) , Please rate on a scale of 0-4	2	2	Assessment of projects has to be flexible in nature and to ensure uniform interpretation
23	Quality of Lab Projects and Reports , Please rate on a scale of 0-4	2.2	2	To ensure quality strengthen the alignment of lab projects & reports with outcomes
24	Percentage of the courses where pass percent is below 70 %	15%	2	Create interest of students where pass percentage is low to improve in academic
<b>C: Co-Curricular Activities</b>				
25	Percentage of activities not conducted as per <b>Event Calendar</b> of the Department	20%	2	Reported on time
26	Percentage of Event Calendar activities reported to Press Club/ ERP	80%	3.8	Reported well
27	Activities planned / executed as per policy of Career Counseling , Please rate on a scale of 0-4	2.2	3	Satisfactory
<b>D: Student Support</b>				
28	Activities planned / executed as per Mentor Mentee Policy , Please	2	2	In meeting attempts should be made to discuss the personal problems of female Students apart from academics issues.

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	rate on a scale of 0-4			
29	Appointment of CRs (Y/N)	Yes	3	Yes, meeting is appreciable with HODs
30	Frequency of interactions of CRs with Director/Vice Chancellor	2	3	Encourage frequent meeting allowing CRs to express concern freely
31	Student's orientation before the beginning of Classes	100%	4	Satisfactory
<b>F: Governance and Best Practices</b>				
<ol style="list-style-type: none"> <li>Governance policies and charters that outline decision-making processes, board committees and reporting mechanisms are well developed.</li> <li>Regularly review and update policies and procedures are ensured to compliance with local, national and international laws and regulations.</li> <li>A code of conduct and ethics policies that employees are aware of and adhere to them is well developed and a culture of ethics and integrity throughout the organization is quite established.</li> <li>Establish and maintain an effective internal audit function to assess internal controls and identify areas for improvement is established.</li> </ol>				
32	<b>Strength of the Department:</b>			
	<ol style="list-style-type: none"> <li>The BMLT curriculum is designed to align with the requirements of the healthcare industry.</li> <li>This program includes clinical rotations or internships, where students have the opportunity to work in real healthcare settings.</li> <li>Medical laboratory technology is a growing field with a demand for skilled professionals.</li> <li>Students can work as medical laboratory technologists, laboratory supervisors, research assistants, or pursue further specialization in specific areas.</li> </ol>			
33	<b>Weakness of Department:</b>			
	<ol style="list-style-type: none"> <li>Networking Lack of proper accreditation could affect the program's recognition, career prospects for graduates, and eligibility for further education or licensing.</li> <li>If the program does not offer sufficient opportunities for internships, industry collaborations, or practical exposure to real-world laboratory settings, it may hinder students' ability to gain practical skills and relevant work experience.</li> </ol>			
34	<b>New Initiatives taken by the Department</b>			
	<ol style="list-style-type: none"> <li>A state-of-the-art clinical simulation lab that mimics real-life healthcare settings to enhance practical skills and decision-making among students would be established.</li> <li>New degree or certificate programs in specialized areas of paramedical sciences, such as advanced cardiac life support, pediatric paramedicine, or disaster response would be developed.</li> <li>Collaboration with other healthcare-related departments or institutions to offer interdisciplinary courses or joint degree programs to better prepare students for complex healthcare scenarios would be fostered.</li> </ol>			

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	4. Partnerships with healthcare institutions to provide students with diverse clinical externship opportunities in various healthcare settings would be set up.			
	5. Specialized training and certification programs for paramedics to expand their skill set and career opportunities would be developed.			
35	Planning for the next semester attached (Y/N)	Yes	Yes	

**Recommendations :**

New initiatives would be ensured to meet any accreditation standards and requirements relevant to the field of paramedical sciences.

New initiatives should be integrated seamlessly into the existing curriculum, avoiding redundancy or overlap with current courses or programs.

A comprehensive communication and marketing plan should be promoted the new initiatives both within and outside the institution.


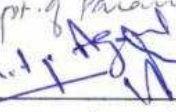

Emphasize a culture of continuous improvement where the department regularly reviews and adapts the initiatives based on data and feedback.

New initiatives and innovative teaching methodologies should be integrated seamlessly into the existing curriculum, avoiding redundancy or overlap with current courses or programs.

Foster employability skill in students in order to meet the requirement of sciences.

(Signature of the HOD with seal)  
  
 HEAD OF DEPARTMENT  
 Dept. of Pharmacy  
 Quantum University, Roorkee

(Signature of Auditor with Name & Date)

1.   
 Dr. Kanti Sainal  
 Coordinator  
 Dept. of Paramedical Sciences
2.   
 Director, Hari College of Pharmacy
3.   
 Prof. (Dr.) Mayank Yadav  
 AVIPS, SU, Bagnah, SRE

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 Auditor  
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## QUANTUM UNIVERSITY, ROORKEE

Quantum School of Health Sciences

Department of Paramedical Sciences

Session: 2021-22

### ACADEMIC & ADMINISTRATIVE AUDIT

#### Action Taken Report

##### Introduction

The organization conducted out an Academic and Administrative Audit in 2021-22 that consists of the academic, administrative and student-focused activities of the University. The following activities were taken into consideration and meticulously executed to improve the institution's quality.

Sl. No.	Suggestions	Action Taken
1.	Encourage faculty to engage innovative teaching methods in the field of medical sciences	Management organizes regular workshops, seminars and practical sessions related to medical science on innovative teaching techniques and technology.
2.	Ensure to meet any accreditation standards and requirements relevant to the field of paramedical sciences.	The university maintains the pace of medical technology in order to meet accreditation standards and requirements in the field of paramedical sciences.
3.	Engage a diverse range of ICT tools	The institution keeps evolving the technological landscape for improving productivity and communication in the digital age.

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4.	Foster Interdisciplinary Approach of Education	The university promotes interdisciplinary studies, allow students to explore diverse perspectives and integrate knowledge from various fields.
5	Introducing research oriented projects at the undergraduate level	Research initiatives at the UG level are introduced. Small research projects are encouraged for undergraduate students to undertake.
6	Promote Inclusive and collaborative learning environment	The university incorporated inclusive teaching methods, such as group discussions and cooperative learning, to engage students and promote collaboration.
7	Provide research opportunities i.e., research papers and book writing under the supervision of faculty	Provide undergraduate students with research opportunities within the department. Faculty guidance and encouragement are offered for conducting additional research including writing research paper and book authoring.
8	Strengthen career counseling policy	Career counseling department are well set up that assists students in finding internships and opportunities.
9	More employability skill components to be added in the Curriculum	Compulsory employability skill-based papers incorporated in the Curriculum.

### Conclusion

Based on the recommendations made by the AAA team, all the necessary steps have been taken in order to improve the institution's quality.

### Signature

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# **Academic Audit Report**

**Session: 2021-22**

**(Odd Semester)**

**Department of Commerce and Finance**

**Quantum School of Graduate  
Studies**

**Quantum University, Roorkee**

## QUANTUM UNIVERSITY, ROORKEE

### Academic Audit Report

(Filled in Performa to be submitted to the committee in both soft and hard copy)

Session : 2021-22  
 School : Quantum School of Graduate Studies  
 Name of the Department : Department of Commerce and Finance  
 Name of Programs (Offered) : Bachelor of Commerce  
 Date of Audit : 27/09/2021

S.No.	Audit Criteria	Self Appraisal of Department	Auditor's Rating	Auditor's Recommendations
<b>A. Curriculum and Teaching Learning Process</b>				
1	Number of course files audited	80%	3.8	Remaining should audited
2	Percentage of courses where lesson plan was created, approved and uploaded on ERP	100%	4	Satisfactory
3	Number of courses in which the lectures are conducted as per Lesson Plan	89%	3.6	Satisfactory
4	Percentage of Lectures (in all courses) with ICT Tools	63%	3	Classrooms should be equipped with fixed projectors or smart classes
5	Percentage of Lecture which demonstrated experiential, participative and problem solving strategies	74%	2.6	Engage almost all lectures so as to assure that each lecture is demonstrated experiential.
6	Percentage of courses where CO-PO mapping is on ERP	100%	4	Satisfactory
7	Percentage of Course where teaching material is uploaded on QLRC/QMS before the commencement of classes	78%	2.8	
8	Percentage of courses whose question-banks were evaluated and moderated by sub specialty Group	100%	4	Satisfactory
9	Percentage of courses in which 'Assignment-1' is mapped with CO-Outcome and Bloom's Taxonomy	79%	3.8	A-1 of all courses must be mapped with co-outcome and B1

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10	Percentage of courses in which 'Assignment-2' is mapped with Experiential/Participative Learning/ Problem Solving and assessed by the Sub Specialty Group	60%	2.9	A-2 of courses have to be adequately mapped with requirement
11	Percentage of courses in which Quizzes are mapped with CO-Outcome and Bloom's Taxonomy and assessed by Sub Specialty Groups	95%	3.7	Satisfactory
12	Quality of ESE Question Papers as per mapping and Bloom's Taxonomy, Please rate on a scale of 0-4	2	2	Language and content requirement per question need to be worked upon.
13	Quality of projects assigned to students in the beginning of semester, Please rate on a scale of 0-4	2.8	2	Outdoor projects can be added.
14	Percentage of courses where all listed practical were conducted as per time table	82%	3.8	Maintain continuity between the stated practical courses.
15	Quality of Lab Manuals and Procedures , Please rate on a scale of 0-4	3.1	2.9	Include pertinent data tables or diagrams.
16	How many VACs were conducted/planned in the session	6	3.8	Sufficient in numbers
17	Performance of teachers in uploading course material on QLRC, , Please rate on a scale of 0-4	3.1	3	Moderate in uploading
18	Activities planned / executed as per policy of slow and fast Learners , Please rate on a scale of 0-4	3.8	3.7	Greater emphasis on inclusion
19	Students' and teachers' feedback analyzed and ATR prepared	100%	4	Satisfactory
<b>B: Evaluation Process</b>				
20	Quality of evaluation in Assignments and Mid Semester Examination , Please rate on a scale of 0-4	3.8	3	Satisfactory

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21	Quality of Projects submitted by the students , Please rate on a scale of 0-4	3.8	3	Satisfactory
22	Quality of Assessment of the Projects (adhering the university policy) , Please rate on a scale of 0-4	3.7	3	Satisfactory
23	Quality of Lab Projects and Reports , Please rate on a scale of 0-4	3.7	3	Satisfactory
24	Percentage of the courses where pass percent is below 70 %	8%	2	Satisfactory
<b>C: Co-Curricular Activities</b>				
25	Percentage of activities not conducted as per <b>Event Calendar</b> of the Department	15%	3	Organized activities as such that they should match event calendar
26	Percentage of Event Calendar activities reported to Press Club/ ERP	89%	3.6	All activities must be upload on press club on time
27	Activities planned / executed as per policy of Career Counseling , Please rate on a scale of 0-4	3.8	3.5	Satisfactory
<b>D: Student Support</b>				
28	Activities planned / executed as per Mentor Mentee Policy , Please rate on a scale of 0-4	3.7	3.5	Satisfactory
29	Appointment of CRs (Y/N)	Yes	4	Yes
30	Frequency of interactions of CRs with Director/Vice Chancellor	2	2	Frequency with CRs meet increased.
31	Student's orientation before the beginning of Classes	100%	4	Satisfactory
<b>E: Governance and Best Practices</b>				
32	<b>Strength of the Department</b> 1. Offering Job oriented specialization			

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	<ol style="list-style-type: none"> <li>2. Continuous growth in Strength of students</li> <li>3. Concentrate on overall development of the students by providing exposure in curricular and co-curricular activities.</li> <li>4. Highly experienced faculties with good academic background.</li> <li>5. Regular Workshops, FDP's &amp; Guest lectures</li> <li>6. Skill improvisation &amp; Value added programs</li> <li>7. Good Campus Placement</li> <li>8. Adoption of technology in teaching learning process with a view to harnessing the recent ICT based innovations, namely             <ol style="list-style-type: none"> <li>a. Outcome based education (GAs / PEOs / POs)</li> <li>b. Blooms Taxonomy</li> <li>c. Online Courses (NPTEL &amp; MOOCS)</li> <li>d. Learning Management System (LMS)</li> </ol> </li> <li>9. Syllabus is designed with self-corrective measures and in consultation with Industry people.</li> </ol>			
33	<p>Weakness of Department</p> <ol style="list-style-type: none"> <li>1. Non availability of Govt. / Other funded projects.</li> <li>2. No. of class room equipped with Projector/ Audio Video tools are very less needs to be increased</li> <li>3. Absence of Industry Academia Collaborative MoUs in the department</li> </ol>			
34	<p>New Initiatives taken by the Department</p> <p>To bridge the gap between academia and industry, the Department of Commerce and university will foster closer ties with the corporate sector by increasing</p> <ol style="list-style-type: none"> <li>1. Faculty Induction Programs</li> <li>2. Industrial Visits</li> <li>3. Seminars and workshops by Industry Experts/ Alumni placed in different sectors.</li> </ol>			
35	Planning for the next semester attached (Y/N)	Yes	Yes	Yes
<p><b>Recommendations :</b></p> <ol style="list-style-type: none"> <li>1. To include more innovative teaching methods, such as experiential learning, project-based assignments, or flipped classrooms.</li> <li>2. Offering professional development opportunities to students, such as workshops, seminars, and career counseling services.</li> <li>3. Departmental event planning and participation of students should be encouraged in the context of financial literacy.</li> <li>4. Foster research based skills in students in association with faculty members.</li> </ol>				

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 Quantum University

  
 HEAD OF DEPARTMENT  
 Dept. of Commerce and Finance  
 Quantum University, Roorkee

  
 DIRECTOR  
 IQAC  
 Quantum University, Roorkee









(Signature of the HOD with seal)



HEAD OF DEPARTMENT  
Dept. of Commerce and Finance  
Quantum University, Roorkee

(Signature of Auditor with Name & Date)

1. Dr. Manish Srivastava Ma!
2. Dr. Sanjeev Arora Prof
3. Alok Prasad J.

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Registrar  
Quantum University

## QUANTUM UNIVERSITY, ROORKEE

Quantum School of Graduate Studies

Department of Commerce

Session: 2021-22

### ACADEMIC & ADMINISTRATIVE AUDIT

#### Action Taken Report

##### Introduction

The organization conducted out an Academic and Administrative Audit in 2021-22 that consists of the academic, administrative and student-focused activities of the University. The following activities were taken into consideration and meticulously executed to improve the institution's quality.

Sl. No.	Suggestions	Action Taken
1.	Encourage skills related to and financial literacy activities	The university has integrated practical courses, internships case studies, simulations, guest lecturers and insights of industry experts in the department.
2.	Encourage the understanding of the global approach of commercial world	The university has created a supportive and enriching environment that empowers students to develop global approach of business by engaging workshops, research symposiums, international conferences and alumni involvement.
3.	Create a professional competency among students	The department provide opportunity to the students to visit the field, career guidance and real-world projects to build professional competency among students


Academic Audit


4.	Engage innovative teaching methods	The department has included innovative teaching methods, such as experiential learning, project-based assignments, flipped classrooms and so on.
5	Engage research oriented initiatives at UG level	The university has started research projects at UG level to enhance students' critical skills and a passion for research early in their academic careers
6	Encourage environmental awareness through improving a variety of ICT tools	The university strongly promotes environmental sustainability initiatives by engaging digital resources, online libraries and databases, student management systems, flexible learning, and paperless operations that directly support
7	Strengthen career counseling policy	Career counseling department are well set up that assists students in finding internships and opportunities
8	Foster Interdisciplinary Approach of Education	The university promotes interdisciplinary studies that allow students to explore diverse perspectives and integrate knowledge from various fields.


### Conclusion

Based on the recommendations made by the AAA team, all the necessary steps have been taken in order to improve the institution's quality.

Signature

  
Dr. Manish Srivastava  
Dean  
Faculty of Business and Management  
Quantum University

  
Dr. Sanjeev Arora  
HOD, GNCL Noida

  
Atul Prasad  
HOD, BSHT

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Registrar  
Quantum University

  
HEAD OF DEPARTMENT  
Dept. of Commerce and Finance  
Quantum University, Roorkee

# **Academic Audit Report**

**Session: 2021-22**

**Department of Pharmacy**

**Quantum School of Health Sciences**

**Quantum University, Roorkee**

## QUANTUM UNIVERSITY, ROORKEE

### Format for Academic Audit

(Filled in Performa to be submitted to the committee in both soft and hard copy)

Session: 2021-22

School: Quantum School of Health Sciences

Name of the Department: Department of Pharmacy

Name of Programs (Offered): Bachelor of Pharmacy

Date of Audit: 27/09/2021

S. No.	Audit Criteria	Self Appraisal of Department	Auditor's Rating	Auditor's Recommendations
<b>A. Curriculum and Teaching Learning Process</b>				
1	Number of course files audited	10.2	4	All course files are required to be audited on time.
2	Percentage of courses where lesson plan was created, approved and uploaded on ERP	100%	4	Satisfactory
3	Number of courses in which the lectures are conducted as per Lesson Plan	90%	3.9	Satisfactory
4	Percentage of Lectures (in all courses) with ICT Tools	60%	3	Utilize ICT tools such as virtual learning multimedia presentations
5	Percentage of Lecture which demonstrated experiential, participative and problem solving strategies	85%	3.8	Proper handouts and reference tutorials must be provided timely
6	Percentage of courses where CO-PO mapping is on ERP	85%	3.7	Use mapping as a tool for program and assessment and improvement
7	Percentage of Course where teaching material is uploaded on QLRC/QMS before the commencement of classes	80%	3.5	Ensure to have proper check material and references
8	Percentage of courses whose question-banks were evaluated and moderated by sub specialty Group	100%	4	Satisfactory need more rigors
9	Percentage of courses in which 'Assignment-1' is mapped with CO-Outcome and Bloom's Taxonomy	90%	3.9	Satisfactory

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10	Percentage of courses in which 'Assignment-2' is mapped with Experiential/Participative Learning/ Problem Solving and assessed by the Sub Specialty Group	75%	3.1	'Assignment-2' is required to be assessed by SSG
11	Percentage of courses in which Quizzes are mapped with CO-Outcome and Bloom's Taxonomy and assessed by Sub Specialty Groups	85%	3.4	Satisfactory and assessed by SSG
12	Quality of ESE Question Papers as per mapping and Bloom's Taxonomy, , Please rate on a scale of 0-4	3	3	Satisfactory, mapped and loaded
13	Quality of projects assigned to students in the beginning of semester , Please rate on a scale of 0-4	3	3	Industrial hospital visits may be introduced
14	Percentage of courses where all listed practical were conducted as per time table	85%	3.4	Satisfactory, proper scheduling and evaluation
15	Quality of Lab Manuals and Procedures , Please rate on a scale of 0-4	3.5	3	Incorporate changes from industry to maintain quality of lab
16	How many VACs were conducted/planned in the session	1/1	3	VAC's are sufficient in number
17	Performance of teachers in uploading course material on QLRC, , Please rate on a scale of 0-4	3.5	3	Continuous monitoring additional materials may be used
18	Activities planned / executed as per policy of slow and fast Learners , Please rate on a scale of 0-4	3.2	3	Separate teaching learning practices should be followed
19	Students' and teachers' feedback analyzed and ATR prepared	100%	4	Satisfactory
<b>B: Evaluation Process</b>				
20	Quality of evaluation in Assignments and Mid Semester Examination , Please rate on a scale of 0-4	3.5	3	Satisfactory need comment on answer book
21	Quality of Projects submitted by the students, Please rate on a scale of 0-4	3	3	Project must be authentic and relevant and also involve research
22	Quality of Assessment of the Projects ( <i>adhering the university policy</i> ) , Please rate on a scale of 0-4	3	3	Consistently check the progress of project assessment should be flexible

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23	Quality of Lab Projects and Reports , Please rate on a scale of 0-4	3	3	Learn or experience between practical and theoretical
24	Percentage of the courses where pass percent is below 70 %	10%	2	Encourage students centered approach to improve in academics
<b>C: Co-Curricular Activities</b>				
25	Percentage of activities not conducted as per Event Calendar of the Department	15%	2	Keep updating event calendar if required reported well
26	Percentage of Event Calendar activities reported to Press Club/ ERP	85%	3	Appoint inter departments faculties to ensure same
27	Activities planned / executed as per policy of Career Counseling , Please rate on a scale of 0-4	3	3	Satisfactory
<b>D: Student Support</b>				
28	Activities planned / executed as per Mentor Mentee Policy , Please rate on a scale of 0-4	3.8	3	There should be proper follow-ups
29	Appointment of CRs (Y/N)	Yes	4	Yes
30	Frequency of interactions of CRs with Director/Vice Chancellor	2	2	Meeting should be increased if necessary so that desired resolution would be provide on time
31	Student's orientation before the beginning of Classes	100%	4	Satisfactory
<b>F: Governance and Best Practices</b>				
<p>Curriculum Review and Revision: Regularly review and update the pharmacy curriculum to align with the latest advancements in pharmaceutical science, pharmacy practice, and industry standards.</p> <p>Experiential Education: Provide comprehensive experiential education opportunities, including internships, clerkships, and rotations, to prepare students for real-world pharmacy practice.</p> <p>Inter professional Education: Promote interdisciplinary collaboration by working closely with other healthcare programs (e.g., medicine, nursing) to simulate real healthcare environments and improve teamwork among healthcare professionals.</p> <p>Technology Integration: Incorporate modern pharmacy technology, including electronic health records, pharmacy management systems, and telepharmacy tools, into the curriculum to prepare students for the evolving pharmacy landscape.</p> <p>Pharmaceutical Care Emphasis: Emphasize pharmaceutical care principles, including patient-centered care, medication therapy management, and medication counseling, to produce pharmacists who prioritize patient well-being.</p> <p>Ethical and Cultural Competency Training: Integrate training on ethical considerations and cultural competence into the curriculum to prepare students for diverse patient populations and complex ethical dilemmas.</p> <p>Research and Innovation: Promote research initiatives within the department to encourage faculty and students to contribute to pharmaceutical knowledge and innovation.</p> <p>Faculty Development: Support ongoing faculty development through training, workshops, and opportunities for research and scholarly activities to keep instructors updated on teaching methods and industry trends.</p> <p>Student Support Services: Establish support services such as academic advising, mentorship programs, and career counseling to</p>				

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help students excel academically and transition smoothly into their careers.

Effective implementation of these best practices can help pharmacy departments produce competent and compassionate pharmacists who are well-prepared to meet the evolving needs of the healthcare system.

32	<p><b>Strength of the Department:</b></p> <ol style="list-style-type: none"> <li>1. B.Pharm degree equips graduates with the knowledge of drug formulation, manufacturing, quality control, and regulatory requirements.</li> <li>2. It can be valuable for aspiring entrepreneurs looking to start their own pharmaceutical companies or establish ventures in related sectors such as herbal medicines, nutraceutical, or cosmeceuticals.</li> <li>3. B.Pharm programs in Indian universities offer a comprehensive curriculum covering subjects such as pharmaceutical chemistry, pharmacology, pharmaceutics, Pharmacognosy, pharmaceutical analysis, clinical pharmacy, and pharmaceutical technology.</li> <li>4. This wide range of courses ensures a strong foundation in pharmaceutical sciences.</li> </ol>			
33	<p><b>Weakness of Department:</b></p> <ol style="list-style-type: none"> <li>1. While internships and industry placements are becoming more common, some Indian universities may not provide sufficient opportunities for students to gain practical exposure in pharmaceutical companies or research institutions.</li> <li>2. This lack of industry interaction can make it challenging for graduates to understand the practical aspects of the field and adapt to the work environment.</li> <li>3. Research and innovation are crucial components of the pharmaceutical field.</li> </ol>			
34	<p>New Initiatives taken by the Department</p> <ol style="list-style-type: none"> <li>1. Patient Education and Health Promotion: Developing patient education programs to improve medication adherence and health outcomes, especially for chronic diseases like diabetes, hypertension, or asthma.</li> <li>2. Medication Safety Initiatives: Implementing initiatives to enhance medication safety, such as barcode scanning systems, error reporting mechanisms, and medication reconciliation programs.</li> <li>3. Drug Disposal and Medication Take-Back Programs: Creating programs to safely dispose of expired or unused medications, helping to reduce environmental contamination and the risk of medication misuse.</li> </ol>			
35	<p>Planning for the next semester attached (Y/N)</p>	Yes	Yes	Yes

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**Recommendations :**

**Patient Safety and Quality Improvement:** Promote a culture of patient safety, medication error reporting, and continuous quality improvement within the department.

**Leadership Development:** Provide leadership development opportunities for students, including involvement in pharmacy organizations, leadership courses, and mentorship programs.

**Sustainability Initiatives:** Integrate education on environmentally responsible pharmacy practices and sustainable healthcare options into the curriculum.

**Pharmacy Practice Innovations:** Encourage students and faculty to explore innovative pharmacy practices, such as telepharmacy, medication therapy management services, and medication synchronization programs.

**Adaptive Learning:** Consider incorporating adaptive learning technologies and personalized learning approaches to cater to individual student needs and learning styles

Foster professional skills in students to meet the requirement of professional acumen.

(Signature of the HOD with seal)  
Date)

HEAD OF DEPARTMENT  
Dept. of Pharmacy  
Quantum University, Roorkee

(Signature of Auditor with Name &

1. Mr. Vaibhav Kumar Nathi

2. Dr. Kshitiy Agaul  
Hari College of Pharmacy

Dr. (Ph.D.) Mayank Yadav  
ANIPS, SU, Bangalore, SRE

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Quantum University

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# QUANTUM UNIVERSITY, ROORKEE

Quantum School of Health Sciences

Department of Pharmacy

Session: 2021-22

## ACADEMIC & ADMINISTRATIVE AUDIT

### Action Taken Report

#### Introduction

The organization conducted out an Academic and Administrative Audit in 2021-22 that consists of the academic, administrative and student-focused activities of the University. The following activities were taken into consideration and meticulously executed to improve the institution's quality.

Sl. No.	Suggestions	Action Taken
1.	Encourage Pharmacy Practice Innovations	The university has started innovative pharmacy practices such as health screening services camps, medication adherence tools and medication access and awareness programs.
2.	Incorporate adaptive learning technique	The university strongly maintains sustainable policies and practices that align with the healthcare options into the curriculum.
3.	Create a professional competency among students	The university has introduced experiential learning activities in the respective departments in order to give students hands-on experience and develop competency.
4.	Integrate sustainable practices in pharmacy	The integration of sustainable practices in pharmacy has been started by advocating Green pharmacy, pharmaceutical waste management

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5.	Patient safety and quality improvement	The university has initiated a culture of patient safety, medication error reporting and continuous quality improvement within the department.
6	Foster Interdisciplinary Approach of Education	The university promotes interdisciplinary studies that allow students to explore diverse perspectives and integrate knowledge from various fields.
7	Encourage research oriented projects and innovations	Research oriented projects are initiated in the department to contribute to pharmaceutical knowledge and innovation.
8	Incorporate a variety of advance ICT tools	In the digital age, the institution is constantly facilitating dispense medications accurately, ensure drug safety, and streamline various pharmacy operations.

### Conclusion

Based on the recommendations made by the AAA team, all the necessary steps have been taken in order to improve the institution's quality.

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HEAD OF DEPARTMENT  
Dept. of Pharmacy  
Quantum University, Roorkee

# **Academic Audit Report**

**Session: 2021-22**

**Department of Agriculture Studies**

**Quantum School of Agricultural  
Studies**

**Quantum University, Roorkee**

**QUANTUM UNIVERSITY, ROORKEE**

**Academic Audit Report**

**2021-22**

*(Filled in Performa to be submitted to the committee in both soft and hard copy)*

**Session: 2021-22**

**School: Quantum School of Agricultural Studies**

**Name of the Department: Department of Agriculture Studies**

**Name of Programs (Offered): Bachelor of Science (Hons) in Agriculture**

**Date of Audit: 27/09/2021**

S. No.	Audit Criteria	Self-Appraisal of Department	Auditor's Rating	Auditor's Recommendations
<b>A. Curriculum and Teaching Learning Process</b>				
1	Number of course files audited	25%	3	Need improvements and rest of files should be checked by HODs
2	Percentage of courses where lesson plan was created, approved and uploaded on ERP	100%	4	Satisfactory

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3	Number of courses in which the lectures are conducted as per Lesson Plan	85%	4	Ensure that all courses must be sign synchronized with lesson plan
4	Percentage of Lectures (in all courses) with ICT Tools	100%	4	Satisfactory
5	Percentage of Lecture which demonstrated experiential , participative and problem solving strategies	70%	3	Make it certain that almost all the lectures must be experiential, participative and problem solving oriented
6	Percentage of courses where CO-PO mapping is on ERP	100%	4	Satisfactory
7	Percentage of Course where teaching material is uploaded on QLRC/QMS before the commencement of classes	75%	3	Ensure study material of all remaining courses should be uploaded on QLRC/QMS timely.

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8	Percentage of courses whose question-banks were evaluated and moderated by sub specialty Group	100%	4	BL level evaluation needed
9	Percentage of courses in which 'Assignment-1' is mapped with CO-Outcome and Bloom's Taxonomy	74%	4	More critical reviews or required before assigning students
10	Percentage of courses in which 'Assignment-2' is mapped with Experiential/P articipative Learning/ Problem Solving and assessed by the Sub Specialty Group	55%	3	Remaining 45% courses with A-2 should also be mapped with experiential/ participative learning
11	Percentage of courses in which Quizzes are mapped with CO-Outcome and Bloom's Taxonomy and assessed by Sub Specialty Groups	70%	4	Rest of quiz oriented courses must also be mapped with co-outcome and Blooms Taxonomy

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12	Quality of ESE Question Papers as per mapping and Bloom's Taxonomy, Please rate on a scale of 0-4	2.7	2	Satisfactory
13	Quality of projects assigned to students in the beginning of semester Please rate on a scale of 0-4	2.5	2	Add more practical skill attributes.
14	Percentage of courses where all listed practical were conducted as per time table	64%	4	Listed practical oriented courses should be conducted as per time table
15	Quality of Lab Manuals and Procedures Please rate on a scale of 0-4	2.5	3	Engage extra elements quality of lab manuals
16	How many VACs were conducted/planned in the session	0.2	Sufficient in number	Number of VACS are satisfactory

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17	Performance of teachers in uploading course material on QLRC, Please rate on a scale of 0-4	2.6	2	Moderate in uploading courses material by faculty members on QLRC
18	Activities planned / executed as per policy of slow and fast Learners, Please rate on a scale of 0-4	2.7	2	Emphasize inclusion in courses, supporting slow learners to match learning pace.
19	Students' and teachers' feedback analyzed and ATR prepared	100%	4	Satisfactory
<b>B: Evaluation Process</b>				
20	Quality of evaluation in Assignments and Mid Semester Examination, Please rate on a scale of 0-4	3.0	3	Satisfactory. Teacher can add comments
21	Quality of Projects submitted by the students, Please rate on a scale of 0-4	3	3	Involve research based elements

22	Quality of Assessment of the Projects (adhering the university policy), Please rate on a scale of 0-4	2.5	2	Engage one to one interaction with students to ensure transparency
23	Quality of Lab Projects and Reports, Please rate on a scale of 0-4	2.3	2	Quality of lab projects and reports is moderately practiced.
24	Percentage of the courses where pass percent is below 70 %	10%	2	Involved question answer session to bring improvements in academics


**C: Co-Curricular Activities**

25	Percentage of activities not conducted as per <b>Event Calendar</b> of the Department	12%	2	Examine required resources to support schedule activities.
26	Percentage of Event Calendar activities reported to Press Club/ ERP	65%	3	Activities departmental or central level should be reported to press club and on ERP

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27	Activities planned / executed as per policy of Career Counseling , Please rate on a scale of 0-4	2.7	2	Conduct through needs assessment to understand career counselling requirements of students
<b>D:Student Support</b>				
28	Activities planned / executed as per Mentor Mentee Policy , Please rate on a scale of 0-4	2.5	2	Reduce per teacher mentees. Documents proper follow up.
29	Appointment of CRs (Y/N)	Yes	4	Satisfactory
30	Frequency of interactions of CRs with Director/ Vice Chancellor	2	2	Encourage on atmosphere of transparency and openness during interactions
31	Student's orientation before the beginning of Classes	100%	4	Satisfactory

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<b>E: Governance and Best Practices</b>				
<ol style="list-style-type: none"> <li>1. Kisaan Goshti</li> <li>2. Student Ready program</li> <li>3. Organic Fair</li> <li>4. Soil testing camp</li> </ol>				
32	<b>Strength of the Department</b> <ol style="list-style-type: none"> <li>1. Interdisciplinary Approach: It promotes interdisciplinary studies, allowing students to explore diverse perspectives and integrate knowledge from various fields.</li> <li>2. Broad Understanding of Nature and Human Behavior facilitates in addressing complex issues related to environment, ethics, politics, economics and many more.</li> <li>3. It cultivates specific skills in field of agriculture and knowledge of other fields so that students would be able to develop critical thinking, research and writing skills, effective communication, etc.</li> </ol>			
33	<b>Weakness of Department</b> <ol style="list-style-type: none"> <li>1. Soil testing labs should be updated.</li> <li>2. Focuses more on subjective and qualitative aspects rather than concrete, measurable outcomes.</li> <li>3. Departmental events and activities should be increased for the students.</li> <li>4. Streamlined documentation of data is required.</li> <li>5. Department faces challenges in integrating emerging technologies into their research and teaching practices.</li> <li>6. Graduates from the disciplines may encounter more limited job prospects compared to certain STEM fields.</li> <li>7. The number of PhD faculties need to be increased.</li> </ol>			
34	<b>New Initiatives taken by the Department</b> <ol style="list-style-type: none"> <li>1. Community engagement is encouraged by establishing partnerships with local organizations, non-profits and sometimes government agencies.</li> <li>2. Undergraduate students are provided with research opportunities within the department.</li> <li>3. Stress is given on developing skills such as critical thinking, communication, research methodologies, and interdisciplinary problem-solving.</li> <li>4. More skill based activities and events are planned for upcoming session.</li> </ol>			
35	Planning for the next semester attached (Y/N)	Yes	Yes	Yes

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**Recommendations :**

1. To include more innovative teaching methods, such as experiential learning, project-based assignments and/or flipped classrooms.
2. Offering professional development opportunities to students, such as workshops, seminars, and career counseling services.
3. Departmental event planning and participation of students.
4. Provide opportunities for faculty development and training to equip instructors with the necessary skills and knowledge to effectively deliver the new initiatives.
5. Provide frequent career counseling sessions to students.

  
(Signature of the HOD with seal)  
Date) 29/9/21

HEAD OF DEPARTMENT  
Dept. of Agriculture Studies  
Quantum University, Roorkee

(Signature of Auditor with Name &

-   
1. Dr. Devi Singh, C Extcomd  
Head, MIMU, Ambala
2. Dr. Anjay Singh Bisht   
27/9/21
3. Dr. Rakesh Kumar   
27/09/21

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**QUANTUM UNIVERSITY, ROORKEE**

**Quantum School of Agricultural Studies**

**Session: 2021-22**

**ACADEMIC & ADMINISTRATIVE AUDIT**

**Action Taken**

**Report**

**Introduction**

The organization conducted out an Academic and Administrative Audit in 2021-22 that consists of the academic, administrative and student-focused activities of the University. The following activities were taken into consideration and meticulously executed to improve the institution's quality.

Sl. No.	Suggestions	Action Taken
1.	Foster soil testing camps and services	The university initiated promoting soil health, agricultural sustainability and community engagement to offer valuable services to the public while advancing research and education in the field of soil science.
2.	Engage a diverse range of ICT tools	The institution keeps evolving the technological landscape for improving productivity and communication in the digital age.
3.	Encourage faculty to engage innovative teaching methods	Management organizes regular workshops, seminars and training sessions on innovative teaching techniques and technology.
4.	Promote Inclusive and collaborative learning environment	The university incorporated inclusive teaching methods, such as group discussions and cooperative learning, to engage students and promote collaboration.

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5	Introducing research oriented projects at the undergraduate level	Research initiatives at the UG level are introduced. Small research projects are also encouraged for undergraduate students to undertake.
6	Foster Interdisciplinary Approach of Education	The university rigorously promotes interdisciplinary studies that allow students to explore diverse perspectives and integrate knowledge from various fields.
7	Provide research opportunities i.e., research papers and book writing under the supervision of faculty	Provide undergraduate students with research opportunities within the department. Faculty guidance and encouragement are offered for conducting additional research including writing research paper and book authoring.
8	Strengthen career counseling policy	Career counseling department are well set up that assists students in finding internships and opportunities.
9	More employability skill components to be added in the Curriculum	Compulsory employability skill-based papers have to be incorporated in the Curriculum.

### Conclusion

Based on the recommendations made by the AAA team, all the necessary steps have been taken in order to improve the institution's quality.

Signature

*Dr. Dev Singh*  
Dr. Dev Singh,  
Head,  
MMU, Ambala,

*Anjey Singh Bisht*  
Dr. Anjey Singh Bisht

*Rakesh Kumar*  
Dr. Rakesh Kumar

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HEAD OF DEPARTMENT  
Dept. of Agriculture Studies  
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*[Signature]*  
DIRECTOR  
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Quantum University, Roorkee

# **Academic Audit Report**

**Session: 2021-22**

**Department of Hospitality & Tourism**  
**Quantum School of Hospitality &**  
**Tourism**  
**Quantum University, Roorkee**



## QUANTUM UNIVERSITY, ROORKEE

### Academic Audit Report

2021-22

*(Filled in Performa to be submitted to the committee in both soft and hard copy)*

Session: 2021-22

School: Quantum School of Hospitality and Tourism

Name of the Department: Department of Hospitality and Tourism

Name of Programs (Offered): Bachelor of Hotel Management

Date of Audit: 27.09.2021

S. No.	Audit Criteria	Self-Appraisal of Department	Auditor's Rating	Auditor's Recommendations
<b>A. Curriculum and Teaching Learning Process</b>				
1	Number of course files audited	100%	3	Good but need improvement.
2	Percentage of courses where lesson plan was created, approved and uploaded on ERP	100%	4	Satisfactory.
3	Number of courses in which the lectures are conducted as per Lesson Plan	82.5%	4	Remaining lectures have to be synced as well.
4	Percentage of Lectures (in all courses) with ICT Tools	65%	3	Multimedia presentation, online stimulation, virtual labs, collaborative platform can be employed.

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5	Percentage of Lecture which demonstrated experiential, participative and problem solving strategies	52.5%	2	Engage experimental, participative and problem solving strategies in almost all lectures.
6	Percentage of courses where CO-PO mapping is on ERP	100%	4	Acceptable.
7	Percentage of Course where teaching material is uploaded on QLRC/QMS before the commencement of classes	62.1%	3	Timeline should be set to upload teaching materials to QLRC/ QMS.
8	Percentage of courses whose question-banks were evaluated and moderated by sub specialty Group	100%	4	Satisfactory.
9	Percentage of courses in which 'Assignment-1' is mapped with CO-Outcome and Bloom's Taxonomy	69%	3	Additional reviews before giving to students.
10	Percentage of courses in which 'Assignment-2' is mapped with Experiential/Participative Learning/ Problem Solving and assessed by the Sub Specialty Group	40%	2.3	Map remaining courses.

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11	Percentage of courses in which Quizzes are mapped with CO-Outcome and Bloom's Taxonomy and assessed by Sub Specialty Groups	41.2%	2.3	All courses with quiz must be meticulously mapped with co-outcome and Bloom's Taxonomy.
12	Quality of ESE Question Papers as per mapping and Bloom's Taxonomy, Please rate on a scale of 0-4	2.9	3	Evaluate overall quality of ESE question paper as per mapping and blooms taxonomy.
13	Quality of projects assigned to students in the beginning of semester , Please rate on a scale of 0-4	2	2	Quality of project should engage practical approach.
14	Percentage of courses where all listed practical were conducted as per time table	72.9%	3	Mostly courses with practical component must adhere to schedule time-table.
15	Quality of Lab Manuals and Procedures, Please rate on a scale of 0-4	2.4	2	Lab procedure and manual must syncwith academic standards.
16	How many VACs were conducted/planned in the session	3	2	Sufficient number.
17	Performance of teachers in uploading course material on QLRC, , Please rate on a scale of 0-4	2.5	2	Faculty must upload course material timely.
18	Activities planned / executed as per policy of slow and fast Learners, Please rate on a scale of 0-4	2.6	2	Encourage inclusive teaching methodologies.

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19	Students' and teachers' feedback analyzed and ATR prepared	100%	4	Satisfactory.
<b>B: Evaluation Process</b>				
20	Quality of evaluation in Assignments and Mid Semester Examination , Please rate on a scale of 0-4	2.6	2	More accuracy and transparency required.
21	Quality of Projects submitted by the students , Please rate on a scale of 0-4	2.3	2	Also engage research based approach.
22	Quality of Assessment of the Projects (adhering the university policy) , Please rate on a scale of 0-4	4	3	Satisfactory
23	Quality of Lab Projects and Reports , Please rate on a scale of 0-4	2.2	2	Research, data collection and analytical tool can be employed.
24	Percentage of the courses where pass percent is below 70 %	11%	2	Encourage micro teaching.
<b>C: Co-Curricular Activities</b>				
25	Percentage of activities not conducted as per <b>Event Calendar</b> of the Department	10%	3	Satisfactory.
26	Percentage of Event Calendar activities reported to Press Club/ ERP	80%	4	Calendar activity have to be timely reported.

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27	Activities planned / executed as per policy of Career Counseling, Please rate on a scale of 0-4	3.3	3	Satisfactory.
<b>D: Student Support</b>				
28	Activities planned / executed as per Mentor Mentee Policy , Please rate on a scale of 0-4	2.3	2	Apart from periodic meets discuss progress, achievements along with personal problems
29	Appointment of CRs (Y/N)	YES	YES	YES
30	Frequency of interactions of CRs with Director/Vice Chancellor	3	3	Satisfactory.
31	Student's orientation before the beginning of Classes	100%	4	Satisfactory.
<b>F: Governance and Best Practices</b>				
<ol style="list-style-type: none"> <li>1. Maintain comprehensive documentation of governance decisions, actions, and compliance efforts.</li> <li>2. Regularly review and update governance policies and practices to adapt to changing circumstances.</li> <li>3. Develop sustainability policies and practices that align with the organization's values and long-term goals.</li> <li>4. Hold board members and executives accountable for their actions and decisions.</li> <li>5. Continuously monitor and update internal control systems to mitigate risks and enhance operational efficiency.</li> </ol>				
32	<b>Strength of the Department</b> <ul style="list-style-type: none"> <li>• Interdisciplinary Approach is practiced to recognize the interconnectedness of knowledge and encourage a collaborative mindset to tackle complex challenges effectively.</li> <li>• Supportive working environment among department members.</li> </ul>			

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	<ul style="list-style-type: none"> <li>• Flexible curriculum management with devoted teachers.</li> <li>• Offers practical training opportunities synchronized with sustainable practices to the students.</li> <li>• Facilitate in developing professional competency among students.</li> <li>• Promote inclusive teaching methodologies.</li> <li>• Encourage research oriented skills in students.</li> </ul>				
33	<b>Weakness of the Department</b> <ul style="list-style-type: none"> <li>• Departmental library is to be developed.</li> <li>• Adequate Technological Integration is needed.</li> <li>• PhD faculties are required.</li> </ul>				
34	<b>New Initiatives taken by the Department</b> <ul style="list-style-type: none"> <li>• Industry Events and Competitions conduct by the department.</li> <li>• The department introduced experiential learning activities to give students hands-on experience.</li> </ul>				
35	<table border="1"> <tr> <td>Planning for the next semester attached (Y/N)</td> <td>YES</td> <td>Yes</td> <td>Yes</td> </tr> </table>	Planning for the next semester attached (Y/N)	YES	Yes	Yes
Planning for the next semester attached (Y/N)	YES	Yes	Yes		
<b>Recommendations :</b> <ul style="list-style-type: none"> <li>• Conducting a thorough evaluation of the curriculum to ensure it aligns with industry standards and covers essential topics.</li> </ul>					

(Signature of the HOD with seal)

(Signature of Auditor with Name & Date)



HEAD OF DEPARTMENT  
Dept. of Hospitality and Tourism  
Quantum University, Roorkee

1. Dr. Kuldeep Yadav 
2. Dr. Shiv Mohan Verma 
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## QUANTUM UNIVERSITY, ROORKEE

Quantum School of Hospitality and Tourism

Department of Hospitality and Tourism

Session: 2021-22

### ACADEMIC & ADMINISTRATIVE AUDIT

#### Action Taken

#### Report

#### Introduction

The organization conducted out an Academic and Administrative Audit in 2021-22 that consists of the academic, administrative and student-focused activities of the University. The following activities were taken into consideration and meticulously executed to improve the institution's quality.

Sl. No.	Suggestions	Action Taken
1.	Encourage practical training opportunities	The department has introduced experiential learning activities to give students hands-on experience.
2.	Encourage sustainable practices in the academics	The department as per university norms strongly maintains sustainable policies and practices that align with the organization's values and long-term goals.
3.	Create a professional competency among students	The university has introduced experiential learning activities in the respective departments in order to give students hands-on experience

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4.	Encourage a diverse and cooperative learning environment.	The institution used inclusive teaching strategies including group discussions and cooperative learning to engage students and encourage cooperation.
5	Engage research based initiatives at UG level	Research based initiatives at the UG level have already been started to make students learn research skills in their undergraduate years.
6	Foster Interdisciplinary Approach of Education	The university promotes interdisciplinary studies, allow students to explore diverse perspectives and integrate knowledge from various fields.
7	Encourage Industry Events and Competitions	The university can provide students with valuable opportunities to apply their theoretical knowledge, gain practical skills, network with professionals, and showcase their talents.
8	Strengthen career counseling policy	Career counseling department are well set up that assists students in finding internships and opportunities.
9	Add more employability skill components in the courses	Compulsory employability skill-based components are incorporated in the Curriculum.

### Conclusion

Based on the recommendations made by the AAA team, all the necessary steps have been taken in order to improve the institution's quality.

Signature



Dr. Kuldeep Yadav  
Faculty, Gov. Polytechnic, Saharanpur



Dr. Shiv Nathu Verma  
HOD, Subharti University, Meerut

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# **Academic Audit Report**

**Session: 2021-22**

**(Odd Semester)**

**Department of Sciences**

**Quantum School of Graduate  
Studies**

**Quantum University, Roorkee**

## QUANTUM UNIVERSITY, ROORKEE

### Academic Audit Report

(Filled in Performa to be submitted to the committee in both soft and hard copy)

Session : 2021-22  
 School : Quantum School of Graduate Studies  
 Name of the Department : Department of Sciences  
 Name of Programs (Offered) : Bachelor of Sciences  
 Date of Audit : 27/09/2021

S. No.	Audit Criteria	Self Appraisal of Department	Auditor's Rating	Auditor's Recommendations
<b>A. Curriculum and Teaching Learning Process</b>				
1	Number of course files audit	14	3.5	HOD's should see rest of the files.
2	Percentage of courses where lesson plan was created, approved and uploaded on ERP	92%	3.6	Satisfactory
3	Number of courses in which the lectures are conducted as per Lesson Plan	80%	3	All the remaining lectures have to be synced as per the designed lecture Plan.
4	Percentage of Lectures (in all courses) with ICT Tools	58%	2.5	Utilize contemporary ICT tools, such as multimedia presentations, online simulations, virtual labs, collaborative Platforms & instructional apps.
5	Percentage of Lecture which demonstrated experiential, participative and	69%	3	Use Practical methods and applications in the Lectures to demonstrate experiential participative and Problem solving approach

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S. No.	Audit Criteria	Self Appraisal of Department	Auditor's Rating	Auditor's Recommendations
	problem solving strategies			
6	Percentage of courses where CO-PO mapping is on ERP	100%	4	satisfactory
7	Percentage of Course where teaching material is uploaded on QLRC/QMS before the commencement of classes	68%	2.6	set a tentative time frame for uploading materials to the QLRC/QMS prior to the commencement of each course.
8	Percentage of courses whose question-banks were evaluated and moderated by sub specialty Group	100%	4	Need more rigor in evaluating the BL Levels.
9	Percentage of courses in which 'Assignment-1' is mapped with CO-Outcome and Bloom's Taxonomy	80%	3.7	satisfactory more critical reviews are required before assigning to the students.
10	Percentage of courses in which 'Assignment-2' is mapped with Experiential/Participative Learning/ Problem Solving and assessed by the Sub	85%	3.5	Prior reviews is required by SSQ and HODs.

  
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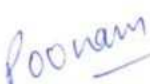


S. No.	Audit Criteria	Self Appraisal of Department	Auditor's Rating	Auditor's Recommendations
	Specialty Group			
11	Percentage of courses in which Quizzes are mapped with CO-Outcome and Bloom's Taxonomy and assessed by Sub Specialty Groups	94%	3.5	Satisfactory
12	Quality of ESE Question Papers as per mapping and Bloom's Taxonomy, . Please rate on a scale of 0-4	3.8	3	Satisfactory, mapped and loaded on CO-PO module for calculations.
13	Quality of projects assigned to students in the beginning of semester, Please rate on a scale of 0-4	3.2	3	1> NO upto marks simply in out project will not do 2> Project need to be assigned in beginning of semester. 3> follow SOPs.
14	Percentage of courses where all listed practical were conducted as per time table	91%	3.7	Satisfactory
15	Quality of Lab Manuals and Procedures, Please rate on a scale of 0-4	3.5	3	Need modifications
16	How many VACs	3	3	A number of VACs are

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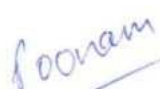
S. No.	Audit Criteria	Self Appraisal of Department	Auditor's Rating	Auditor's Recommendations
	were conducted/planned in the session			satisfactory
17	Performance of teachers in uploading course material on QLRC , Please rate on a scale of 0-4	90%	3.5	Continuous monitoring may be done by constituting a committee.
18	Activities planned / executed as per policy of slow and fast Learners , Please rate on a scale of 0-4	90%	3	Impact - Analysis is required
19	Students' and teachers' feedback analyzed and ATR prepared	100%	3.6%	Need to corporate Alumni feedback.
<b>B: Evaluation Process</b>				
20	Quality of evaluation in Assignments and Mid Semester Examination , Please rate on a scale of 0-4	2.7	3	Grade evaluation appreciated Need comment on Answer book.
21	Quality of Projects submitted by the students , Please rate on a scale of 0-4	3.8	3.8	Need more mentoring
22	Quality of Assessment of the Projects (adhering the university policy) ,	50%	2.5	External members should be taken from IITs/ Government institutions.

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S. No.	Audit Criteria	Self Appraisal of Department	Auditor's Rating	Auditor's Recommendations
	Please rate on a scale of 0-4			
23	Quality of Lab Projects and Reports , Please rate on a scale of 0-4	95%	3.5	Strengthen the alignment of Lab projects with learning outcomes and connections between practical experiences and theoretical knowledge.
24	Percentage of the courses where pass percent is below 70 %	10%	3.5	Increase engaging and attention grabbing lectures so that students take interests in learning and pass percentage would increase
<b>C: Co-Curricular Activities</b>				
25	Percentage of activities not conducted as per <b>Event Calendar</b> of the Department	10%	3.5	Reported well
26	Percentage of Event Calendar activities reported to Press Club/ ERP	92%	4	Satisfactory
27	Activities planned / executed as per policy of Career Counseling , Please rate on a scale of 0-4	84%	3.6	Satisfactory
<b>D: Student Support</b>				

  
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S. No.	Audit Criteria	Self Appraisal of Department	Auditor's Rating	Auditor's Recommendations
28	Activities planned/executed as per Mentor Mentee Policy, Please rate on a scale of 0-4	90%	3.5	Reduce the per teachers mentees There should proper follow ups
29	Appointment of CRs (Y/N)	Yes	4	Yes, meeting with Director/ Vice-Chancellor is appreciable
30	Frequency of interactions of CRs with Director/Vice Chancellor	100%	4	Encourage an atmosphere of transparency and openness during interactions, allowing CRs to express concerns freely.
31	Student's orientation before the beginning of Classes	100%	4	Satisfactory

**E: Governance and Best Practices**

32	<p><b>Strength of the Department</b></p> <ul style="list-style-type: none"> <li>✓ motivate students for games and extra-curricular activities</li> <li>✓ fee waiver for students who score above 90%, 80% in intermediate &amp; Q-care exam installments for the needy.</li> <li>✓ Well (defined) qualified competent and experienced teachers.</li> <li>✓ E-Governance is intensified by providing ERP.</li> <li>✓ A comprehensive and up-to-date curriculum is implemented in department.</li> <li>✓ Industry collaboration and initiative is done by DEEPRO.</li> </ul>
33	<p><b>Weakness of Department</b></p> <ul style="list-style-type: none"> <li>✓ Less opportunity and scope of Government funded projects.</li> <li>✓ Subjective &amp; qualitative aspects must adhere to pioneering theories</li> <li>✓ Departmental events &amp; activities should be in relatively higher number as per regulatory bodies.</li> <li>✓ streamlined documentations of data is required as a well kept archival</li> </ul>

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S. No.	Audit Criteria	Self Appraisal of Department	Auditor's Rating	Auditor's Recommendations
34	New Initiatives taken by the Department ✓ Diversity of Inclusion in their programs ✓ Entrepreneurship of start-up support to students and faculties interested in starting their own science based ventures			
35	Planning for the next semester attached (Y/N)	Yes	Yes	Yes

**Recommendations :**

- Engage innovative teaching methods in the classroom teaching.
- Make use of emerging technologies tools, focused on such as experiential learning, off and on campus training, project based assignments, or flipped class room.
- Offering professional development opportunities to students, such as workshops, seminars and career counseling services.
- Strict adherence to regulatory body guideline in sync with departmental event planning and proactive participation of students.

*Jmy*  
(Signature of the HOD with seal)  
Date)

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1. Dr. Manish Srivastava *Mal*
2. Ms. Poonam Tamar *Poonam*
3. Dr. Vinay Pal Singh *[Signature]*

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# QUANTUM UNIVERSITY, ROORKEE

Quantum School of Graduate Studies

Department of Sciences

Session: 2021-22

## ACADEMIC & ADMINISTRATIVE AUDIT

### Action Taken Report

#### Introduction

The organization conducted out an Academic and Administrative Audit in 2021-22 that consists of the academic, administrative and student-focused activities of the University. The following activities were taken into consideration and meticulously executed to improve the institution's quality.

Sl. No.	Suggestions	Action Taken
1.	Engage more on govt. funded projects	The department has taken into consideration and initiated to take up such projects that are funded by govt.
2.	Encourage faculty to engage innovative teaching methods	Management organizes regular workshops, seminars and training sessions on innovative teaching techniques and technology.
3.	Introduce research oriented projects at the undergraduate level	Research initiatives at the UG level are introduced. Small research projects are encouraged for undergraduate students to undertake.

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4.	Focus more on the collaboration of industry and academics	The department has taken some initiative in the collaboration of industry and academics
5	Strengthen career counseling policy	Career counseling department are well set up that assists students in finding internships and opportunities.
6	Promote Inclusive and collaborative teaching methods	The university incorporated inclusive teaching methods, such as group discussions and cooperative learning, to engage students and promote collaboration.
7	More employability skill components to be added in the Curriculum	Compulsory employability skill-based papers incorporated in the Curriculum.

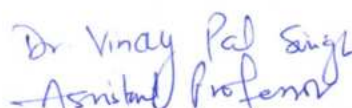
### Conclusion


Based on the recommendations made by the AAA team, all the necessary steps have been taken in order to improve the institution's quality.

### Signature

  
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