Action Taken Report on Feedback of Stakeholders

Session (2020-21)

Program Name: Bachelor of Science (Hons)Specialization in Physics

Department of Sciences
Faculty of Graduate Studies
Quantum University, Roorkee

Registrar
Quantum University

Action Taken Report of the Department

(*On the basis of the suggestions made by the IQAC and Super Specialty Groups of the Departments on the Feedback of all stakeholder*)
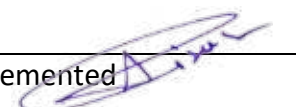
	Action Taken Report	
	Department Name: Department of Sciences	
	Feedback Session: 2020-21	
	Curriculum Design	
Code	**Recommendation by Super Specialty Groups of the Department**	**Action taken during design of Syllabus for 2021-2024**
PH3141	**R-2:** Teaching learning process should be innovative and need effective lab delivery. Faculty willingness to involve practical knowledge for the students during lab. A rigorous pre preparation of lecture must be important.	Implementation and monitoring system of lesson plan for each course are done in QUMS.
	Use of interactive / modern tools (like brain storming sessions, E-content, vedios, other Online platforms etc.) must be adopted for effective teaching learning process.	Implemented in QUMS
CS3202	**R-3:** The content is good and as per the basic and advance topics of the subject and knowledge required to the students. Teaching learning process should be innovative and need effective course delivery.	Implemented
PH3206	**R-2:** Content of the syllabus is relevant to students and justify the syllabus. Its need to explain with more practical examples. It is required to supply the handouts, reference materials (like PPT, vedios, Books etc) must be given to the class students previously.	Implemented
CY3206	**R-1:** To improve the quality of content, lecture delivery with real world examples related to the topics. The current syllabus should be more focused on the current demand of the industry/ job/ higher education/ researched & innovation sectors.	More relevant topics are added in syllabus are per the current needs.
PH3240	**R-3:** The lab structure must be mapped (like lecture plan, BL level, class notes etc) in ERP or other modern electronic tools by the faculty. Quality of content in assignment and other activity is relevant to students as per BL level of question given in assignment. Faculty should try to involve new teaching learning methods.	More interactive sessions are involved like video lectures, online content utilises to support interactive teaching process.
CY3242	**R-5:** Faculty must ensure the process of assessment done and must be communicated to the students properly (like time line, BL level, pattern of evaluation, Online platform for learning etc.). The standard of lab work will be based on mapped BL level complexity of the experiment of the syllabus, which is the basis of CO	Implemented QLRC, online courses like NPTEL, Coursera etc employed for providing blended learning. Registrar Quantum University

	attainment model adopted in the university.	
PH3306	**R-3:** Faculty need to prepare the interactive and planned contents for the delivery of lecture during class room lecture. Faculty must impart the information of new research currently going on with the subject related topics.	Implemented in QUMS.
PH3340	**R-3:** Teaching learning process should be innovative and need effective course delivery. Faculty willingness to involve teaching for the students during lab work. A rigorous pre preparation of lab must be important.	Implementation and monitoring system of lesson plan for each experiment are done in QUMS.
PH3406	**R-5:** Faculty must ensure the process of assessment done and must be communicated to the students properly (like time line, BL level, pattern of evaluation, Online platform for learning etc.). The standard of question paper will be based on mapped BL level complexity of the unit of the syllabus, which is the basis of CO attainment model adopted in the university.	Implemented QLRC, online courses like NPTEL, Coursera etc employed for providing blended learning.
PH3440	**R-2:** Use of interactive / modern tools (like brain storming sessions, E-content, vedios, other Online platforms etc.) must be adopted for effective teaching learning process.	Implemented in QUMS.
MA3440	**R-1:** To improve the quality of content, lecture delivery with real world examples related to the topics. The current syllabus should be more focused on the current demand of the industry/ job/ higher education/ researched & innovation sectors.	More relevant topics are added in syllabus are per the current needs.
PH3501	**R-3:** The content is good and as per the basic and advance topics of the subject and knowledge required to the students. Teaching learning process should be innovative and need effective course delivery.	Implemented
PH3502	**R-3:** Teaching learning process should be innovative and need effective course delivery. Faculty willingness to involve teaching for the students during delivery of lectures. A rigorous pre preparation of lecture must be important.	Implementation and monitoring system of lesson plan for each course are done in QUMS.
PH3514	**R-3:** Faculty need to prepare the interactive and planned contents for the delivery of lecture during class room lecture. Faculty must impart the information of new research currently going on with the subject related topics.	Implemented in QUMS.
PH3601	**R-2:** Use of interactive / modern tools (like brain storming sessions, E-content, vedios, other Online platforms etc.) must be adopted for effective teaching learning process.	Implemented in QUMS.
PH3602	**R-3:** Teaching learning process should be innovative and need effective course delivery. Faculty willingness	Implementation and monitoring system of lesson plan for each

	to involve teaching for the students during delivery of lectures. A rigorous pre preparation of lecture must be important.	course are done in QUMS.
PH3611	**R-1:** To improve the quality of content, lecture delivery with real world examples related to the topics. The current syllabus should be more focused on the current demand of the industry/ job/ higher education/ researched & innovation sectors.	More relevant topics are added in syllabus are per the current needs.
PH3613	**R-2:** Content of the syllabus is relevant to students and justify the syllabus. Its need to explain with more practical examples. It is required to supply the handouts, reference materials (like PPT, vedios, Books etc) must be given to the class students previously.	Implemented
PH3641	**R-3:** Faculty need to prepare the interactive and planned contents for the delivery of lab during class room lecture. Faculty must impart the information of new research currently going on with the related topics.	Implemented in QUMS.
PH3650	**R-3:** Teaching learning process should be innovative and need effective course delivery. Faculty willingness to involve teaching for the students during delivery of lectures. A rigorous pre preparation of lecture must be important.	Implementation and monitoring system of lesson plan for each course are done in QUMS.
PH3671	**R-4:** The course structure must be mapped (like lecture plan, BL level, class notes etc) in ERP or other modern electronic tools by the faculty. Quality of content in assignment and other activity is relevant to students as per BL level of question given in assignment. Faculty should try to involve new teaching learning methods.	Proper BL level are set for the questions of assignment. More interactive sessions are involved like video lectures, online content utilises to support interactive teaching process.

	Other Teaching Learning Aspects	
Overall Teaching Learning Process	**R-4:** Teaching Skills should be improved through hands-on workshop. **R-5:** Need continuous evaluation of the student. Pattern of Exam with new examination schemes as suggested by UAC (like more online videos related to subjects, Online Quiz for lab and theory, open book exam etc.) **R-13:** Students should be encouraged for participation on line competitions at international/National of repute.	Provision of real time reporting on QUMS implemented. Pattern of Exam & CO attainment as per new examination schemes as suggested by UAC get implemented in QUMS.
Training of Teachers	**R-4:** Need advanced training (working on online teaching / learning app.) of teachers for online protocols during COVID-19.	Implemented Registrar Quantum University

Peer Group Learning	**R-8:** A2 assignments should be Mini project/ Research paper based for fast learners & topics based for slow learners	Implemented
Seminars & Workshops	**R-11:** More guest lectures, Seminars & Workshops should be required for science students For Depth knowledge of the subject,	Organised
Communication Skills	**R-9:** Online Group discussion & resume building training needed for sciences students. Students must be giving presentations on any topic in every individual course given by faculties.	Conducted & Presentations assigned on different topics
Training for Placements	**R-6:** For grooming the personality of the students required two or three-week online training programs should be organised on Technical Skills. Industrial Seminars & Workshops should be organised.	Scheduled, arranged & organised.
Learning with virtual lab	**R-10**: Use of virtual lab related to the courses for online protocols. Tying up with learning virtual lab platforms like Coursera, NPTL, IBM etc.	Implemented
Orientation Program	**R-7**: Detailed orientation program for new and senior students should be conducted for giving them information about semester related details. Mentors should encourage students to choose minor/ OE after due discussion with them	Implemented
Interdisciplinary Approach	**R-12**: Students are interested in a career of interdisciplinary areas, can take courses from other disciplines also. So range of Program electives / open elective should be introduced based on latest trend & technology.	Implemented

Deepak Singhal
Faculty Incharge,
University Feedback System

Registrar
Quantum University

Karan Babbar
Coordinator, IQAC

Action Taken Report on Feedback of Stakeholders

Session (2020-21)

Program Name: Bachelor of Science (Hons) Specialization in Chemistry

Department of Sciences
Faculty of Graduate Studies
Quantum University, Roorkee

Registrar
Quantum University

Action Taken Report of the Department

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

	Action Taken Report	
	Department Name: Department of Sciences	
	Feedback Session: 2020-21	
	Curriculum Design	
Code	**Recommendation by Super Specialty Groups of the Department**	**Action taken during design of Syllabus for 2021-2024**
CY3205	R-3: Teaching learning process should be **innovative and need effective course delivery**. Faculty willingness to involve teaching for the students during delivery of lectures. A rigorous pre preparation of lecture must be important.	Implementation and monitoring system of lesson plan for each course are done in QUMS.
CY3106	**R-3:** The content is good and as per the basic and advance topics of the subject and knowledge required to the students. Teaching learning process should **be innovative and need effective course delivery.**	Implemented
CY3107	**R-4:** The course structure must be mapped (like lecture plan, BL level, class notes etc) in ERP or other modern electronic tools by the faculty. Quality of content in assignment and other activity is relevant to students as per BL level of question given in assignment. Faculty should try **to involve new teaching learning methods**.	Proper BL level are set for the questions of assignment. More interactive sessions are involved like video lectures; online content utilises to support interactive teaching process.
CY3140	**R-3**: The content is good and as per the basic and advance experimental and knowledge required to the students. **Teaching learning process should be innovative** and need effective lab delivery.	Implemented
CY3141	**R-2:** Content of the syllabus is relevant to students and justify the lab experiments. Its need to explain with more practical examples. It is required to **supply the handouts, reference materials** (like PPT, vedios, Books etc) must be given to the class students previously.	Implemented
PH3141	**R-2: Use of interactive / modern tools** (like brain storming sessions, E-content, vedios, other Online platforms etc.) must be adopted for effective teaching learning process.	Implemented in QUMS.
MA3308	**R-3:** Faculty **need to prepare the interactive and planned contents** for the delivery of lecture during class room lecture. Faculty must impart the information of new research currently going on with the subject related topics.	Implemented in QUMS.
PH3340	**R-2: Use of interactive / modern tools** (like brain storming sessions, E-content, vedios, other Online platforms etc.) must be adopted for effective teaching learning process.	Implemented in QUMS. Registrar Quantum University

CY3501	**R-3:** Faculty need to prepare the interactive and planned contents for the delivery of lecture during class room lecture. Faculty must impart the information of new research currently going on with the subject related topics.	Implemented in QUMS.
CY3502	**R-2:** Content of the syllabus is relevant to students and justify the syllabus. Its need to explain with more practical examples. It is required to supply the handouts, reference materials (like PPT, vedios, Books etc) must be given to the class students previously.	Implemented
CY3511	**R-1:** To improve the quality of content, lecture delivery with real world examples related to the topics. The current syllabus should be more focused on the current demand of the industry/ job/ higher education/ researched & innovation sectors.	More relevant topics are added in syllabus are per the current needs.
CY3601	**R-5:** Faculty must ensure the process of assessment done and must be communicated to the students properly (like time line, BL level, pattern of evaluation, Online platform for learning etc.). The standard of question paper will be based on mapped BL level complexity of the unit of the syllabus, which is the basis of CO attainment model adopted in the university.	Implemented QLRC, online courses like NPTEL, Coursera etc employed for providing blended learning.
CY3602	**R-3:** The content is good and as per the basic and advance topics of the subject and knowledge required to the students. Teaching learning process should be innovative and need effective course delivery.	Implemented
CY3611	**R-3:** Teaching learning process should be **innovative and need effective course delivery**. Faculty willingness to involve teaching for the students during delivery of lectures. A rigorous pre preparation of lecture must be important.	Implementation and monitoring system of lesson plan for each course are done in QUMS.
CY3671	**R-2: Use of interactive / modern tools** (like brain storming sessions, E-content, vedios, other Online platforms etc.) must be adopted for effective teaching learning process.	Implemented in QUMS.
CY3670	**R-4:** Quality of content in seminar and other activity is relevant to students as per BL level of question given in assignment. Faculty should try **to involve new teaching learning methods.**	More interactive sessions are involved like video lectures, presentation, online content utilises to support interactive teaching process.

Other Teaching Learning Aspects		
Overall Teaching Learning Process	**R-2**: Teaching Skills should be improved through hands-on workshop. **R-5:** Need continuous evaluation of the student. Pattern of Exam with new examination schemes as suggested by UAC (like more online videos related to subjects, Online Quiz for lab and theory, open book exam etc.)	Provision of real time reporting on QUMS implemented. Pattern of Exam & CO attainment as per new examination

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	R-9: Students should be encouraged for participation on line competitions at international/National of repute.	schemes as suggested by UAC get implemented in QUMS.
Training of Teachers	**R-4**: Need advanced training (working on online teaching / learning app.) of teachers for online protocols during COVID-19.	Implemented
Peer Group Learning	**R-8:** A2 assignments should be Mini project/ Research paper based for fast learners & topics based for slow learners	Implemented
Seminars & Workshops	**R-10:** More guest lectures, Seminars & Workshops should be required for science students For Depth knowledge of the subject,.	Organised
Communication Skills	**R-8:** Online Group discussion & resume building training needed for sciences students. Students must be giving presentations on any topic in every individual course given by faculties.	Conducted & Presentations assigned on different topics
Training for Placements	**R-6:** For grooming the personality of the students required two or three-week online training programs should be organised on Technical Skills. Industrial Seminars & Workshops should be organised.	Scheduled, arranged & organised.
Learning with virtual lab	**R-4:** Use of virtual lab related to the courses for online protocols. Tying up with learning virtual lab platforms like Coursera, NPTL, IBM etc.	Implemented
Orientation Program	**R-7:** Detailed orientation program for new and senior students should be conducted for giving them information about semester related details. Mentors should encourage students to choose minor/ OE after due discussion with them	implemented

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Action Taken Report on Feedback of Stakeholders

Session (2020-21)

Program Name: Bachelor of Science (Hons)Mathematics

Department of Sciences
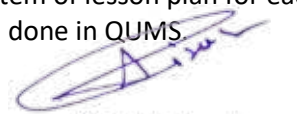**Faculty of Graduate Studies**
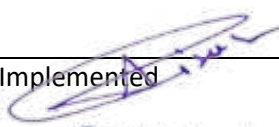Quantum University, Roorkee

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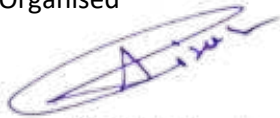
Action Taken Report of the Department

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

Action Taken Report		
Department Name: Department of Sciences		
Feedback Session: 2020-21		
Curriculum Design		
Code	**Recommendation by Super Specialty Groups of the Department**	**Action taken during design of Syllabus for 2021-2024**
EG3103	**R-3:** Faculty need to prepare the interactive and planned contents for the delivery of lecture during class room lecture. Faculty must impart the information of new research currently going on with the subject related topics.	Implemented in QUMS.
CY3205	**R-3:** Teaching learning process should be innovative and need effective course delivery. Faculty willingness to involve teaching for the students during delivery of lectures. A rigorous pre preparation of lecture must be important.	Implementation and monitoring system of lesson plan for each course are done in QUMS.
MA3106	**R-1:** To improve the quality of content, lecture delivery with real world examples related to the topics. The current syllabus should be more focused on the current demand of the industry/ job/ higher education/ researched & innovation sectors.	More relevant topics are added in syllabus are per the current needs.
PH3106	**R-2:** Content of the syllabus is relevant to students and justify the syllabus. Its need to explain with more practical examples. It is required to supply the handouts, reference materials (like PPT, vedios, Books etc) must be given to the class students previously.	Implemented
CY3106	**R-5:** Faculty must ensure the process of assessment done and must be communicated to the students properly (like time line, BL level, pattern of evaluation, Online platform for learning etc.). The standard of question paper will be based on mapped BL level complexity of the unit of the syllabus, which is the basis of CO attainment model adopted in the university.	Implemented QLRC, online courses like NPTEL, Coursera etc employed for providing blended learning.
PH3141	**R-10**: Teaching learning process should be innovative and need effective lab delivery. Faculty willingness to involve teaching for the students during laboratory work. A rigorous pre preparation of experiment must be important.	Implementation and monitoring system of lesson plan for each lab are done in QUMS.

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CY3140	**R-2:** Use of interactive / modern tools (like brain storming sessions, E-content, vedios, other Online platforms etc.) must be adopted for effective lab execution.	Implemented in QUMS.
PH3406	**R-4:** The course structure must be mapped (like lecture plan, BL level, class notes etc) in ERP or other modern electronic tools by the faculty. Quality of content in assignment and other activity is relevant to students as per BL level of question given in assignment. Faculty should try to involve new teaching learning methods.	Proper BL level are set for the questions of assignment. More interactive sessions are involved like video lectures, online content utilises to support interactive teaching process.
MA3440	**R-3:** Teaching learning process should be innovative and need effective lab delivery. Faculty willingness to involve teaching for the students during delivery of experiment. A rigorous pre preparation of lab must be important.	Implementation and monitoring system of lesson plan for each lab experiment are done in QUMS.
PH3440	**R-5:** Faculty must ensure the process of assessment done and must be communicated to the students properly (like time line, BL level, pattern of evaluation, Online platform for learning etc.). The standard of lab experiment will be based on mapped BL level complexity of the unit of the syllabus, which is the basis of CO attainment model adopted in the university.	Implemented QLRC, online courses like NPTEL, Coursera etc employed for providing blended learning.
CY3440	**R-3:** Faculty need to prepare the interactive and planned contents for the delivery of lab during laboratory work. Faculty must impart the information of new research currently going on with the subject related topics.	Implemented in QUMS.
MA3503	**R-3:** Teaching learning process should be innovative and need effective course delivery. Faculty willingness to involve teaching for the students during delivery of lectures. A rigorous pre preparation of lecture must be important.	Implementation and monitoring system of lesson plan for each course are done in QUMS.
MA3601	**R-2:** Use of interactive / modern tools (like brain storming sessions, E-content, vedios, other Online platforms etc.) must be adopted for effective teaching learning process.	Implemented in QUMS.
MA3602	**R-1:** To improve the quality of content, lecture delivery with real world examples related to the topics. The current syllabus should be more focused on the current demand of the industry/ job/ higher education/ researched & innovation sectors.	More relevant topics are added in syllabus are per the current needs.
MA3611	**R-2:** Content of the syllabus is relevant to students and justify the syllabus. Its need to explain with more practical examples. It is required to supply the handouts, reference materials (like PPT, vedios, Books etc) must be given to the class students previously.	Implemented Registrar Quantum University
MA3614	**R-3:** Teaching learning process should be innovative and need effective course delivery. Faculty willingness to involve teaching for the students during delivery of	Implementation and monitoring system of lesson plan for each course are done in QUMS.

	lectures. A rigorous pre preparation of lecture must be important.	
MA3670	**R-5:** Faculty must ensure the process of assessment done and must be communicated to the students properly for seminar (like time line, pattern of evaluation, Online platform for learning etc.). The standard presentation will be based on mapped BL level complexity of the unit of the syllabus, which is the basis of CO attainment model adopted in the university.	Implemented QLRC, online courses like NPTEL, Coursera etc employed for providing blended learning.

Other Teaching Learning Aspects		
Overall Teaching Learning Process	**R-12:** Students are interested in a career of interdisciplinary areas, can take courses from other disciplines also. So range of Program electives / open elective should be introduced based on latest trend & technology. Teaching Skills should be improved through hands-on workshop. **R-13**: Project exhibition should be organised to encourage students to do higher level projects. Students should be encouraged for participation in National level competitions.	Introduced, Participated &Implemented
Peer Group Learning	**R-8**: A2 assignments should be form of Mini project/ Research paper presentation based for fast learners& topics based assignment for slow learners	Implemented
Seminars & Workshops	**R-11:** For Depth knowledge of the subject, guest lectures, Seminars & workshops should be required for science students.	Organised
Communication Skills	**R-9:** Seminars should be done on Group discussion & resume building. Students must be giving presentations on any topic in every individual course given by faculties.	Conducted & Presentations assigned on different topics
Training for Placements	**R-6:** Two or three-weeks training programs should be organised on Technical Skills. Industrial Seminars & Workshops should be organised. Meeting with Training placement officer should be organised.	Scheduled, arranged & organised.
Industry Focused programmes	**R-6:** Industrial visit are essential to give students hand-on exposure and experience of how things and processes work in industries. Our institute organizes such visits to enhance students' exposure to practical learning and work out for a report of such a visit relating to their specific topic, course or even domain.	Organised Registrar Quantum University

Library Visit & QLRC	**R-4**: Students may visit the library and utilises its resources Database and provided Online Public Access Catalogue (OPAC) through which users can be accessed from any of the computer connected in the LAN can know the status of the book.	Implemented
Orientation Program	**R-7:** Orientation should be conducted for senior batches and they should be well informed about their subjects teachers, books available, Mentors, planned activities in semester etc	Implemented

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