

# Action Taken Report on Feedback of Stakeholders

Session (2022-23)

**Program Name:**

**Department of Paramedical Sciences**

**Bachelor of Medical Lab Technology (BMLT)**

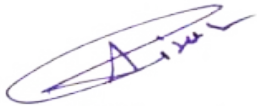


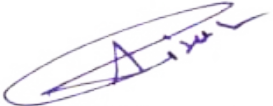
  
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Department of Paramedical Sciences  
Faculty of Health Sciences  
**Quantum University, Roorkee**

## Action Taken Report of the Department

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


<b>Action Taken Report</b> <b>Department Name: Department of Paramedical Sciences</b> <b>Bachelor of Medical Lab Technology (BMLT)</b>		
<b>Feedback Session: 2023-24</b>		
<b>Curriculum Design</b>		
<b>Code</b>	<b>Recommendation by Sub Specialty Groups of the Department</b>	<b>Action taken</b>
<b>RD3106</b>	<b>AR-5</b> It was proposed to increase the credit hours for the course Basics of Human Physiology I in order to provide students with a more comprehensive understanding of human physiology. This extended duration will allow for a deeper exploration of the subject and facilitate a more thorough learning experience.	The credit hours for the subject Basics of Human Physiology I have been increased to 4 credits, allowing for a more in-depth exploration of the intricacies of human physiology. This extended duration will provide students with a comprehensive understanding of the subject matter and facilitate a more immersive learning experience.
<b>ND3105</b>	<b>AR-3</b> Based on discussions with the expertise board members, it has been determined that the current syllabus of the Biochemistry course does not align adequately with the fundamentals of the subject. Therefore, there is a need to revise and upgrade the syllabus to ensure it reflects the core principles of Biochemistry. Additionally, the credit allocation for the course will be reviewed and adjusted accordingly to enhance the depth and breadth of the learning experience. The title of the course has to changed to "Basics in Biochemistry"	The Biochemistry course syllabus has been revamped with new units that align closely with the subject's core principles. Moreover, the credit hours have been increased from 3 to 4, enabling a more comprehensive exploration of the material. These modifications aim to enhance students' understanding of Biochemistry and facilitate a more comprehensive learning experience. The change in the title of the course was incorporated.
<b>ND3144</b>	<b>AR-4</b> In the course Biochemistry Lab, it has been proposed to introduce new qualitative estimations to enhance the learning experience. These additions will provide students with the opportunity to explore and practice additional qualitative estimation techniques, allowing for a more comprehensive understanding of	Three new experiments based on qualitative estimations were added. The course title change was implemented. <div style="text-align: right; margin-top: 20px;">                           Registrar                          Quantum University                     </div>

	biochemistry principles and analytical methods. The change in the title of the course "Basics in Biochemistry Lab" has to be made.	
<b>BL3102</b>	<b>AR-3</b> In the Fundamentals of Microbiology course, expert members have recommended the addition of new topics to cover the basics of microbiology. These additions aim to enhance students' understanding of the subject and ensure comprehensive coverage of fundamental microbiology concepts. The title of the course need to be changed as "Basics in Microbiology"	As per the suggestions Culture Medias, Media Preparations (Poring, Spreading and Streaking) topics were added. The change in the title of the course was implemented.
<b>RD3206</b>	<b>AR-3</b> The credit hours for the course Basics of Human Physiology II need to be increased to allow for a more comprehensive understanding of human physiology. This adjustment is necessary to facilitate a deeper exploration of the subject matter and ensure a thorough grasp of human physiological processes.	The credit hours for the course Basics of Human Physiology II have been increased from 3 to 4, providing students with additional time to delve deeper into the intricacies of human physiology.
<b>BL3201</b>	<b>AR-3</b> In Basic Hematology & Clinical Pathology II, it has been recommended to incorporate PT INR and APTT topics into Unit III. This addition aims to provide students with a comprehensive understanding of these essential aspects of hematology and clinical pathology, enhancing their knowledge and skills in the field.	In Basic Hematology & Clinical Pathology II PT INR, APTT topics were added in unit-III.
<b>BL3202</b>	<b>AR-5</b> Based on discussions with expert members, it has been decided to change the subject name from Fundamentals of Microbiology-II to Principles of Microbiology. This new name accurately reflects the course content, which focuses on the general principles and fundamental concepts of microbiology.	The course "Fundamentals of Microbiology-II" has been renamed to "Principles of Microbiology." This change better reflects the course content, which encompasses the fundamental principles and concepts of microbiology.
<b>BL3103</b>	<b>AR-5</b> The course "Preventive Medicine & Community Healthcare" in the BMLT program will be shifted from Semester-I to Semester-II. This adjustment is being made to align the course as a disciplinary specific core subject in	The course "Preventive Medicine & Community Healthcare" was shifted to Semester –II.   Registrar Quantum University

	BMLT. By moving it to Semester-II, students will have a stronger foundational understanding of the field before delving into the specific aspects of preventive medicine and community healthcare.	
<b>BL3240</b>	<b>AR-5</b> In the course Basic Hematology & Clinical pathology II Lab it was suggested to add two new practical.	In the course Basic Hematology & Clinical pathology II Lab the following practical were added: 1. To Perform Pt INR. 2. To Perform APPT.
<b>BL3241</b>	<b>AR-3</b> In the course Medical Microbiology I(Bacterial Pathogens and associated diseases) in Semester III new topics needed to be added.	The topics Culture Media, (Differential Medias, Enriched media, Selective media)Biochemical Tests were added in the course Medical Microbiology I(Bacterial Pathogens and associated diseases) in Semester III
<b>BL3301</b>	<b>AR-5</b> In the course Pathology and Allied Subject, I(Hematology and Clinical Pathology) expert members suggested to add few topics.	Addition of some new topic in III unit of Hematology in III Semester.
<b>BL3302</b>	<b>AR-5</b> In the course Clinical Biochemistry, I (Separative and Instrumental Techniques)expert members suggested to add new topics in unit V covering advance diagnostic techniques.	In Clinical Biochemistry a new topics serum CSF, FIA, & CLIA, PCR covering advance diagnostic techniques were added in unit V.
<b>BL3304</b>	<b>AR-3</b> In Immunology & Serology Techniques expert members have suggested to change whole syllabus.	Modification in whole syllabus of Immunology & Serology Techniques-I were carried out.
<b>BL3404</b>	<b>AR-3</b> In the field of Immunology & Serology Techniques II, expert members have recommended a comprehensive overhaul of the syllabus to incorporate advanced topics.	Modification in whole syllabus of Immunology & Serology Techniques-II was carried out.
<b>BL3440</b>	<b>AR-4</b> In Pathology and Allied Subject II(Histopathology & Cytology Techniques) Lab expert members suggested modifications & changes in the sequence of practical in Semester-IV.	Modifications with sequence changes in Pathology and Allied Subject II (Histopathology & Cytology Techniques) Lab in semester-IV were implemented in the syllabus.
<b>BL3441</b>	<b>AR-4</b> In the course Clinical Biochemistry I Lab modifications in the title of the experiments were suggested.	Modifications in the title of the experiments were implemented.

  
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<b>BL3442</b>	<b>AR-5</b> In the course Medical Microbiology II Lab a new experiment to be added.	Addition of one new Experiment.
<b>BL3443</b>	<b>AR-5</b> For Immunology & Serology Techniques II Lab we have to add one more new experiment.	A new experiment -To perform CRP Test was added in the syllabus.
<b>BL3501</b>	<b>AR-3</b> As per discussion the title of the course Immunology & Blood Bank Technology to Immunohematology & Blood bank Technology.	The suggestions put forth by the expert members were duly implemented.
<b>BL3540</b>	<b>AR-3</b> As per discussion the title of the course Immunology& Blood bank technology labhas to be changed to Immunohematology & Blood bank Technology Lab.	The title of the subject was changed to Immunohematology & Blood Bank Technology Lab.

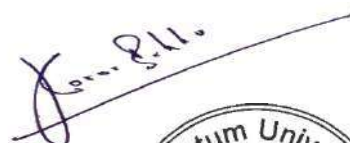

<b>Other Teaching Learning Aspects</b>	
<b>AR-3</b> The curriculum includes frequent hospital postings to provide students with practical exposure to routine radiographic imaging. These postings expose students to real-world clinical settings, helping them develop hands-on skills, understand radiographic techniques, patient care, and the hospital workflow.	Implemented
<b>AR-4</b> Fast learners actively participated in creating PowerPoint presentations to enhance the understanding of topics among slow learners as well. This collaborative effort aimed to facilitate better comprehension and knowledge retention among all students, regardless of their learning pace.	Incorporated in Assignment, flip classes, mini projects and are supervised by faculty members.
<b>AR-1</b> Students should be introduced to the operation of advanced computed radiographic system.	Implemented
<b>AR-4</b> Students should engage in interactive sessions with patients and doctors in hospitals to enhance their professional communication skills. These sessions provide valuable opportunities for students to develop effective communication techniques, enabling them to interact	Implemented  <b>Registrar</b> <b>Quantum University</b>

<p>confidently and compassionately with both patients and medical professionals.</p>	
<p><b>AR-2</b> Organizing special training sessions dedicated to preparing for competitive exams in radiology is essential. These sessions aim to equip students with the necessary knowledge and skills required to excel in these exams. Additionally, students should be encouraged to participate in value-added courses, which provide supplementary education and further enhance their expertise in the field of radiology.</p>	<p>Subject experts conduct career-oriented sessions to guide and mentor students in their chosen field, offering insights on career pathways, industry trends, and opportunities. Students are also encouraged to enroll in value-added courses to gain additional knowledge and skills relevant to their career goals, boosting their professional development and competitiveness in the job market.</p>

  
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 University Feedback System

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 Coordinator, IQAC

# Action Taken Report on Feedback of Stakeholders

Session (2022-23)

**Program Name: Bachelor of Science in Medical Radiology and  
Imaging Technology (BMRIT)**

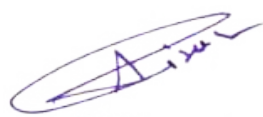


  
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**Quantum University, Roorkee**


## Action Taken Report of the Department

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Departments on the Feedback of all stakeholder)

Action Taken Report		
Department Name: Department of Paramedical Sciences Bachelor of Science in Medical Radiology and Imaging Technology (BMRIT)		
Feedback Session: 2022-23		
Curriculum Design		
Code	Recommendation by Sub Specialty Groups of the Department	Action taken in syllabus designed for 2023-26
--	<b>R-1:</b> During the first semester of their program, non-biology students will be introduced to the subject of <b>Remedial Biology</b> . This course aims to provide essential knowledge and understanding of biology to students who have not studied the subject previously. By incorporating Remedial Biology into the curriculum, non-bio students will have the opportunity to gain a foundational understanding of biological concepts and develop a well-rounded education.	Remedial Biology is introduced in the syllabus as a non- credit course in first Semester of the syllabus.
ND3105	<b>R-1:</b> In the course <b>Biochemistry</b> there is a need for modifications in the Biochemistry syllabus to incorporate essential topics that are crucial for providing students with a comprehensive foundation in the subject and the course name to be changed as " <b>Basics in Biochemistry</b> "	The complete syllabus of Biochemistry has been revamped and modified to align with the requirements and provide students with a comprehensive understanding of the subject and the change in the title of the course was incorporated.
BL3303	<b>R-1:</b> In order to cater to the specific needs of radiology students, it has been decided to replace the course on Medical Microbiology with <b>Principles of Microbiology</b> . While an in-depth knowledge of medical microbiology may not be essential for radiology professionals, having a foundational understanding of infectious diseases and their correlation with radiological imaging can greatly enhance their effectiveness in the field. By introducing Principles of Microbiology, radiology students will gain the necessary knowledge to comprehend the role of microorganisms in healthcare settings and make informed decisions in their practice.	The curriculum now includes the incorporation of a Principles of Microbiology course.   Registrar Quantum University
RD3302	<b>R-1:</b> In the course <b>Conventional Radiographic Technique-I</b> -Darkroom Layout, Illumination topics to be included in 4 <sup>th</sup> Unit of Dark Room Processing Techniques	The suggested topics were introduced in the syllabus.



<b>RD3304</b>	<b>R-1:</b> In the course <b>Special Radiographic Procedure</b> titles of 3 <sup>rd</sup> and 5 <sup>th</sup> Unit needs to be changed as per topics included in the concerned units.	New Titles were given to 3 <sup>rd</sup> and 5 <sup>th</sup> Unit of Special Radiographic Procedure
<b>RD3403</b>	<b>R-1:</b> In the course <b>Equipment of Radiotherapy</b> few new topics needs to be introduced in the syllabus.	Introduction to radiotherapy- Brachytherapy and Teletherapy, Applicators, HDR, LDR. introduced in the syllabus.
<b>RD3302</b>	<b>R-1:</b> Bone Mineral Densitometry to be included in the syllabus and Digital Radiography should be separated as individual unit.	Modifications done as per requirements.
<b>RD3503</b>	<b>R-1:</b> In the course <b>Radiation Protection and Quality Assurance</b> -PCPNDT act to be removed from Radiation Protection and modifications needed in title of Unit 5	Title of Unit 5 modified as per topics included in the syllabus.
<b>RD3505</b>	<b>R-1:</b> In Yoga and Naturopathy Unit should be included in the course	A new unit is introduced in the course as per suggestions.
<b>RD3616</b>	<b>R-1:</b> Students should be taught Intellectual property rights (IPR) in this course	Intellectual property rights (IPR) introduced in the syllabus.
--	<b>R-5:</b> Radiology students should be engaged in <b>Project work</b>	Mini Project introduced in 6 <sup>th</sup> semester of the syllabus.
--	<b>R-5:</b> It is recommended that students partake in a summer internship during their summer vacation in the 4th semester. The evaluation of their internship will take place in the 5th semester. Students are required to submit a comprehensive report detailing their internship experience, which will be presented in the form of PowerPoint presentations followed by a viva voce examination.	Summer Internship is included in the curriculum.
--	<b>R-1:</b> As per NEP policy the category of courses needed to be changed and new course codes has to be provided.	Changes were implemented.

<b>Other Teaching Learning Aspects</b>		
<b>Overall Teaching Learning Process</b>	<b>R-6:</b> The curriculum includes frequent hospital postings to provide students with practical exposure to routine radiographic imaging. These postings expose students to real-world clinical settings, helping them develop hands-on skills, understand radiographic techniques, patient care, and the hospital workflow.	Implemented   Registrar Quantum University

	Students should be encouraged for outreach programs and work I team	
<b>Peer Group Learning</b>	<b>R-2:</b> Fast learners actively participated in creating PowerPoint presentations to enhance the understanding of topics among slow learners as well. This collaborative effort aimed to facilitate better comprehension and knowledge retention among all students, regardless of their learning pace.	Incorporated in Assignment, flip classes, mini projects and are supervised by faculty members.
<b>IT Enabled Literacy</b>	<b>R-3:</b> Students should be introduced to the operation of advanced computed radiographic system.	Implemented
<b>Communication Skills</b>	<b>R-4:</b> Students should engage in interactive sessions with patients and doctors in hospitals to enhance their professional communication skills. These sessions provide valuable opportunities for students to develop effective communication techniques, enabling them to interact confidently and compassionately with both patients and medical professionals.	Implemented
<b>Training for Placements</b>	<b>R-7:</b> Organizing special training sessions dedicated to preparing for competitive exams in radiology is essential. These sessions aim to equip students with the necessary knowledge and skills required to excel in these exams. Additionally, students should be encouraged to participate in value-added courses, which provide supplementary education and further enhance their expertise in the field of radiology.	Subject experts conduct career-oriented sessions to guide and mentor students in their chosen field, offering insights on career pathways, industry trends, and opportunities. Students are also encouraged to enroll in value-added courses to gain additional knowledge and skills relevant to their career goals, boosting their professional development and competitiveness in the job market.

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