RASHID LATIF KHAN UNIVERSITY

35 KM Ferozepur Road, Lahore
A chartered University

Office of the Quality Enhancement Cell
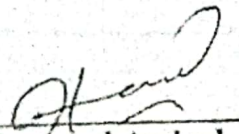
Assessment Team – Findings

Program – BS Biochemistry

1. Curriculum design needs minor changes such as the replacement of General Biology course, placement of bioinformatics course

2. Changes in the final year with respect to internship and capstone project.

3. Hiring of PhD faculty

4. Faculty development must be started.

5. An infrastructure for staff and lab improvements are suggested.

The program **BS Biochemistry, APPROVED** with **RECOMMENDATIONS** under

Judgement framework for **PREE**

Dr Hammad Arshad

Assistant Professor
Faculty of Biology
Lahore Garrison University

RASHID LATIF KHAN UNIVERSITY - LAHORE
Office of the Quality Enhancement

RUBRIC FOR PREE- AT
BS BIOCHEMISTRY

Standard 1 – Program Mission, Objectives and Outcomes	Weight = 0.05	Weightage Standard 1
EOIs	Score 1-5	
1. Does the program have documented measurable objectives that support the institution mission statements?	4	
2. Does the Program have documented outcomes for graduating students?	5	
3. Do these outcomes support the Program objectives?	5	
4. Are the graduating students capable of performing these outcomes?	4	4.17
5. Does the department assess its overall performance periodically using quantifiable measures?	3	
6. Does the department take deliberate steps to engage all students, individually and collectively, as partners in the assurance and enhancement of their educational experience?	4	
Total Score Standard - 1	25	
Standard 2 – Curriculum Design and Organization	Weight = 0.20	Weightage Standard 2
EOIS	Score 1-5	
1. Is the curriculum consistent?	3	
2. Does the curriculum support the program's documented objectives?	5	
3. Are theoretical background, problem analysis and solution design stressed within the program's core material?	4	
4. Does the curriculum satisfy the major requirements laid down by HEC and the respective councils / accreditation bodies	5	
5. Does the curriculum satisfy the general education, arts and professional and other discipline requirements as laid down by the respective /accreditation bodies / councils?	5	18.00
6. Is the information technology component integrated throughout the program?	5	
7. Are oral and written skills of the students developed and applied in the program?	5	
8. Does university conduct feedback surveys each semester for each course from students and faculty?	4	
Total Score Standard - 2	36	
Standard 3 – Subject-specific facilities	Weight = 0.10	Weightage Standard 3
EOIS	Score 1-5	
1. Are Laboratory manuals/documentation/instructions for experiments are available and readily accessible to department and students?	3	

	Score	Weightage
2. Are there adequate number of support personnel for instruction and maintaining the laboratories?	3	6.67
3. Are the the institution's computing infrastructure and facilities are adequate to support the program's objectives?	4	
Total Score Standard - 3	10	
Standard 4 – Student advising and counselling	Weight = 0.10	Weightage Standard 4
EOIS	Score 1-5	
1. Are the modules are offered with sufficient frequency and number for students to complete the program in a timely manner?	4	
2. Are the modules in the major area of study are structured to ensure effective interaction between students, department and teaching assistants?	5	8.67
3. Does the guidance on how to complete the program are available to all students and access to academic advising must be available to make module decisions and career choices ?	4	
Total Score Standard - 4	13	
Standard – 5 Teaching faculty/staff	Weight = 0.20	Weightage Standard 5
EOIS	Score 1-5	
1. Are there enough full time faculty members to provide adequate coverage of the program areas / courses with continuity and stability?	3	
2. Are the qualifications and interests of faculty members sufficient to teach all courses, plan, modify and update courses and curricula?	5	
3. Do the faculty members possess a level of competence that would be obtained through graduate work in the discipline?	4	8.57
4. Do the majority of faculty members hold a PhD degree in their discipline?	0	
5. Do faculty members dedicate sufficient time to research to remain current in their disciplines?	2	
6. Are there mechanisms in place for faculty development?	0	
7. Are faculty members motivated and satisfied so as to excel in their profession?	1	
Total Score Standard - 5	15	
Standard 6: Institutional policies and process control	Weight = 0.15	Weightage Standard 6
EOIS	Score 1-5	
1. Is the process by which students are admitted to the program are based on quantitative and qualitative criteria and clearly documented?	5	
2. Is the process by which students are registered on the program and monitoring of students' progress to ensure timely completion of the program are documented and this process is periodically evaluated to ensure that it is meeting its objectives?	4	

3. Is the process of recruiting and retaining highly qualified department members are in place and clearly documented? Also, processes and procedures for department evaluation, and promotion must be consistent with the institution mission statement. These processes must be periodically evaluated to ensure that they are meeting with their objectives	4	
4. Is the process and procedures used to ensure that teaching and delivery of module material to the students emphasises active learning and that module learning outcomes are met. The process must be periodically evaluated to ensure that it is meeting its objectives.	4	13.13
5. Is the process that ensures that graduates have completed the requirements of the programme are based on standards, and effective and clearly documented procedures. This process must be periodically evaluated to ensure that it is meeting its objectives.	4	
6. Are Programmes produce information for external audiences about the learning opportunities they offer that is fit for purpose, accessible and trustworthy?	5	
7. Are Programmes produce information for students about the learning opportunities they offer that is fit for purpose, accessible and trustworthy?	4	
8. Are Programmes are managed to high ethical standards when dealing with faculty, staff, students and other stakeholders?	5	
Total Score Standard - 6	35	

Standard – 7 Institutional support and facilities		
EOIS	Weight = 0.10	Weightage Standard 7
1. The institution have the infrastructure to support new trends such as e-learning?	Score 1-5	
2. Does the library contain technical collection relevant to the program and is it adequately staffed?	5	
3. Are the class rooms and offices adequately equipped and capable of helping faculty carry out their responsibilities?	5	8.00
	2	
Total Score Standard - 7	12	

Standard 8 – Institutional general requirements		
EOIS	Weight = 0.10	Weightage Standard 8
1. Is the institution ensures that research degrees are awarded in a research environment that provides secure academic Precepts, standards and international best practices for doing research and learning about research approaches, methods, procedures and protocols, and which takes account of social and industrial needs?	Score 1-5	
2. Is this environment offers students quality opportunities and the support they need to achieve successful academic, personal and professional outcomes from their research degrees.	5	10.00
	5	
Total Score Standard - 8	10	

OVERALL ASSESSMENT SCORE	77.20

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Conclusion :

The overall PREE assessment have concluded that the BS Biochemistry program has good structure in-lined with HEC UEP 2023 Policy and needs some of the minor changes in the road map. Chapter 8 score is generalised as this is under level 7 degree program.

Recommendation:

1. Curriculum design needs minor changes such as replacement of General Biology course, placement of bioinformatics course 2. changes in the final year with respect to internship and capstone project. 3. Hiring of PhD faculty 4. faculty development 5. infrastrucure for staff and lab improvements are suggested.

HoD/Incharge Program

AT Reviewer

NOTE:
Score = (Total value/total question x max weight 5)x 100 x weightage

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IMPLEMENTATION PLAN IQA

PROGRAM BS Biochemistry

Implementation Plan Summary

AT Findings & Recommendations	Intended Corrective Actions	Intended Implementation Period	Responsible Body	Resources Needed
Curriculum design needs minor changes such as the replacement of the General Biology course, and placement of bioinformatics course	Curriculum restructuring	Short Term (0-3 months)	Department of physical & Biological Sciences	Updated scheme of studies
Changes in the final year with respect to internship and capstone project.	Revise the Structure of program for final year	Short Term (0-3 months)	Department of physical & Biological Sciences	Updated scheme of studies - Internship placement partners - Capstone project guidelines and supervisors - Evaluation rubrics - Faculty training on supervision and assessment
Hiring of PhD faculty	Initiate Recruitment Process	Short Term (0-3 months)	Human Resource Department (HR)	Financial Resources Human Resources
Faculty development must be started.	Initiate a comprehensive faculty development program focusing on training, research skills, curriculum design, and	Annually	QEC	Budget allocation for training sessions -Collaboration with HEC-recognized training bodies - Expert trainers

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				- Seminar/workshop materials
An infrastructure for staff and lab improvements are suggested.	Develop a phased plan to upgrade infrastructure and procurement of equipment	2025-2026(Phase wise)	Department of Physical and Biological Sciences, Admin Department, Procurement Cell	budget allocation Lab equipment and furniture

Chairman's Comment Name and Signature

Shehla Javaid.
Qjavaid 28/7/2025

The department is fully committed to implementing the proposed actions in a timely and effective manner with administrative support.

Dean's Comment Name and Signature

QEC Office Comment Name and Signature

ALI RAZA QUROYAI. Director QEC.

The department put their efforts in bringing the quality to their program for better outcome.

Director
Quality Enhancement Cell
Rashid Latif Khan University, Lahore.

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