



Program Review for Effective and Enhancement (PREE)

Introduction:

The Program Review for Effective and Enhancement (PREE) under the **Framework of PSG-2023** is implemented as a quality Enhancement mechanism to ensure continuous alignment between institutional vision, program objectives, and national accreditation standards. The review cycle mandates evidence-based evaluation of curriculum relevance, faculty performance, student achievement, and resource adequacy, with measurable Key Performance Indicators (KPIs) such as student retention rates, graduate employability statistics, and faculty development benchmarks. Each department is required to submit a Corrective Action Plan (CAP) after the review findings, outlining specific actions, responsible stakeholders, and timelines for implementation. Progress is monitored quarterly, with documented improvements reported to the IQC/QEC, thereby embedding accountability and fostering a culture of continuous improvement across all academic and administrative units.

Objectives:

- i. Subject standing and development, in the context of university strategy and sector norms and development
- ii. The management of quality and standards in the provision offered within a subject area, including the maintenance of core documentation and the appropriate management of changes to provision
- iii. Academic standards and the maintenance of structures and processes designed for their support (including annual monitoring, unit and course reporting, and academic due process in the assessment and grading of student performance)
- iv. The quality and the student-led enhancement of the learner experience and opportunity in the context of the university mission
- v. External engagement and benchmarking - with the self-assessment criteria and Standards, the Quality Assurance Framework, sector benchmarks, Accreditation Council criteria, employers, alumni and other external reference points that support the development and enhancement of provision and the learner experience

- vi. The continuing currency and validity of courses in light of developments in research, professional and industry practice and pedagogy (including the use of technology in learning and teaching), changes in the external environment such as requirements of the Accreditation Council, and continued alignment with the university's strategy and mission

Standards:

PREE Quality Standards	Standard 1	Program mission, objectives and outcomes
	Standard 2	Curriculum design and organization
	Standard 3	Subject-specific facilities
	Standard 4	Teaching faculty/staff
	Standard 5	Institutional policies and process control
	Standard 6	Internationalization of higher education and global engagement
	Standard 7	Institutional support and facilities
	Standard 8	Institutional general requirements

In the Year 2025, QEC, University of Buner reviewed two academic programs from the relevant faculties and as per the Quality Assurance Agency-HEC targets assigned for the said year.

The Programs were

- i. **Department of Computer Science**
- ii. **Department of Management Sciences**

The Comprehensive summary of the review process is enclosed for information and continuous commitment for making quality assurance alignment the backbone of the academic process in the University of Buner.



OFFICE OF THE DIRECTOR QEC
University of Buner at Swari, Buner Khyber Pakhtunkhwa

No: 88/BEC/1506/2025

Dated: 25/06/2025

SELF-PROGRAM REVIEW EVALUATION AND ENHANCEMENT (SELF-PREE) - 2024-25

PREE-IQA

DEPARTMENT OF COMPUTER SCIENCE
UNIVERSITY OF BUNER-193

JUDEMENTAL FRAMEWORK AND EXECUTIVE SUMMARY

- 1. Approved with Recommendations
- 2. Approved with Conditions

Standard Expectations	AT Findings/ Areas for Improvement	Colour Scheme	Over All Effectiveness / Judgement
Standard 01: Programme Mission, Objectives and Outcomes			
Each programme must have a mission, measurable objectives and expected outcomes for graduates. Outcomes include competency and tasks graduates are expected to perform after completing the programme	1. Program, department, and university missions are aligned. However, measurement of objectives is weak and mostly qualitative. 2. Some objectives are untracked or vaguely addressed.		Approved with recommendations

Standard 02: Curriculum Design and Organisation			
The curriculum must be designed and organised to achieve the programme's objectives and outcomes. Also, module objectives must be in line with programme outcomes	1. Respective accreditation body/councils needed. 2. Information technology components of the curriculum must be integrated throughout the programme. 3. Ensure modules are applied and integrated throughout the programme.		Approved with conditions
Standard 03: Subject-specific Facilities			
Subject-specific facilities must be adequately available and accessible to faculty members and students to support teaching and research activities.	1. subject-specific facilities are need to be established for availability and use in the programme under assessment 2. There is low availability of Laboratory manuals/documentation/instructions for experiments and readily accessibility to department and students. 3. Research aspect needs more flourishing		Approved with recommendation
Standard 04: Student Advising and Counselling			
Students must have adequate support to complete the programme in a timely manner and must have ample opportunity to interact with their instructors and receive timely advice about programme requirements and career alternatives.	1. Need to Structure Modules in the major area of study to ensure effective interaction between students, department and teachers 2. Making Opportunities available for students to interact with practitioners, and to have		Approved with recommendations

	membership in technical and professional societies. 3. Need career counselling office in place 4. Need career placement services available to students 5. Need queries redressal system in place		
Standard 05: Teaching Faculty/Staff			
Teaching faculty/staff must be current and active in their discipline and have the necessary technical depth and breadth to support the programme. There must be enough department members to provide continuity and stability, to cover the curriculum adequately and effectively, and to allow for scholarly activities.	1. At the moment no Criteria for teaching staff to be deemed current in the discipline. 2. Faculty should provide Information in the teaching staff member's CV that it is in line with the emerging trends in the higher education sector. 3. teaching staff is sufficient to deliver the programme curriculum and objectives		Approved with recommendations
Standard 06: Institutional Policies and Process Control			
The processes by which major functions are delivered must be in place, controlled, periodically reviewed, evaluated and continuously improved.	1. Process and functions are being established through which students are registered on the programme without any hassle and monitoring of students' progress. 2. Need procedures for department evaluation, and promotion must be consistent with the institution mission statement. 3. ERP-SAPE is in place for regular updating		Approved
Standard 07: Institutional Support and Facilities			
The institution's support and the financial resources for the programme must be sufficient to provide an environment in which the programme can achieve its objectives and retain its strength. library, classrooms	1. Need the Financial resources provision to acquire and maintain library holdings, laboratories and computing facilities.		Approved with recommendations

and offices, must be adequate to support the objective of the programme

2. Library must possess an up-to-date technical collection relevant to the programme and must be adequately staffed with professional personnel.
3. Classrooms need to be adequately equipped, and offices must be adequate to enable teaching staff to carry out their responsibilities.
4. Smart class rooms are to be introduced in the university new academic block

Standard 08: Institutional General Requirements

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

environment offers students quality opportunities and the support they need to achieve successful academic, personal and professional outcomes

1. University should focus on awarding the research degree after proper research related assignments are done.
2. Regulations need to be in place to comprehensively cover the progression of research students from admission and registration through to final examination and award.
3. Ensure postgraduate research assessment processes are communicated clearly and fully to research students and supervisors.
4. GSC and Synopsis approval committees should be notified for research students in take.
5. Proposal defence information is to be circulated in the university campus to familiar students with the research technicalities and environment.
6. Research projects, NRPUs and other funding projects themes are to be shared with the students and make them research curious and motivated.

Approved with conditions.

1. Chairman's Comments

In the Boardroom of the university, we will address the findings of the report

Name and Signature:

Dr. Hameed Hussain, 

IQAE Panel Comments

1. Dr. Jehangir Khan, Coordinator QEC, University of Malakand

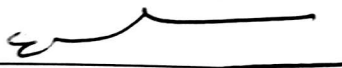
The PREEC (Self) was executed according to the guidelines of QAA-H&EC.

2. Dr. Shafqat Ullah Khan, Director QEC, University of Buner

Some findings are stated with concern despite.

Signatures:

i. Dr. Jehangir Khan 

ii. Dr. Shafatqat Ullah Khan 

Director
QEC University of Buner

Executive summary

The Self Program Review for Effectiveness and Enhancement (PREE) was conducted in accordance with the Higher Education Commission (HEC) of Pakistan's Quality Assurance Framework and the PSG-2023 guidelines. The purpose of this review is to evaluate the effectiveness, relevance, and continuous improvement mechanisms of the academic programs under review for the fiscal year 2024-25.

As part of the targets assigned to University of Buner by the QAA-HEC, **the following academic department was evaluated as listed below;**

1. Department of Computer Science

An assessment team was constituted by the Director QEC under the directions of the worthy Vice-Chancellor which comprised internal members and an external evaluator, Prof. Dr. Jehangir Khan, University of Malakand, serving as the **Program Reviewer**, in line with HEC requirements. The involvement of an external expert ensured objectivity, transparency, and benchmarking against national and international best practices.

The PREE exercise involved a comprehensive self-assessment of the programs across key quality dimensions, including program vision and mission, curriculum design and alignment with learning outcomes, teaching and learning processes, student assessment mechanisms, faculty qualifications and development, research and innovation, infrastructure and learning resources, governance and management, student support services, and stakeholder engagement. Evidence was collected through program documentation, institutional data, surveys and feedback from students, alumni, employers, and faculty members, as well as on-site interactions and observations by the assessment team.

The findings indicate that the evaluated programs are generally aligned with the university's strategic objectives and contribute positively to academic and societal needs. The curricula largely conform to national standards, and faculty members demonstrate commitment to teaching and research. However, the review also identified areas requiring further enhancement, particularly in strengthening outcome-based education practices, improving research field, expanding industry linkages, enhancing research productivity, and upgrading physical and learning resources.

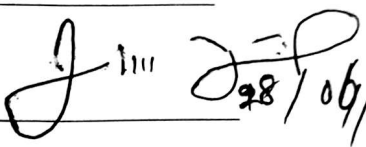
Based on the assessment outcomes, recommendations for a structured Action/Remedial Plan were given to each department to address the findings and take improvement measures. The action plans focus on addressing identified gaps through calculated measures adopted over the period of time.


VICE-CHANCELLOR
UNIVERSITY OF BUNER

IQC Approval:

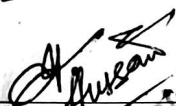
1. Prof. Dr. Niamatullah,
Dean of Sciences, UoB
2. Prof. Dr. Jahangir Khan
QEC Co-ordinator, University of Malakand.
3. Dr. Arif Khan
Director Admissions and Academics
4. Dr. Abid Khan Ahmad
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5. Dr. Hameed Hussain
Assistant Professor in CS, UoB
6. Mr. Bakht Tarin Khan
Lecturer in Zoology, UoB
7. Dr. Shafqat Ullah Khan
Director QEC, UoB

Internal Member 

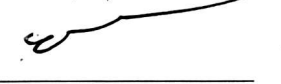
External Member  28/06/2025

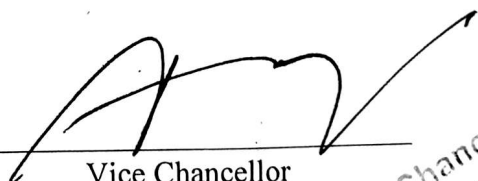
Internal Member 

Internal Member 

Internal Member 

Internal Member 

Internal Member 
Director
QEC University of Buner


Vice Chancellor
University of Buner
Vice Chancellor
University of Buner



OFFICE OF THE DIRECTOR QEC
University of Buner at Swari, Buner Khyber Pakhtunkhwa

No: 27/QEC/UNY 2025

Dated: 24/06/2025

SELF-PROGRAM REVIEW EVALUATION AND ENHANCEMENT (SELF-PRE) - 2024-25

PRE-IQA
DEPARTMENT OF MANGEMENT SCIENCES
UNIVERSITY OF BUNER-193

JUDEMENTAL FRAMEWORK AND EXEUTIVE SUMMARY

1. Approved with Recommendations
2. Approved with Conditions

Standard Expectations	AT Findings/ Areas for Improvement	Colour Scheme	Over All Effectiveness / Judgement
Standard 01: Programme Mission, Objectives and Outcomes			
Each programme must have a mission, measurable objectives and expected outcomes for graduates. Outcomes include competency and tasks graduates are expected to perform after completing the programme	1. Program, department, and university missions are aligned. However, measurement of objectives is weak and mostly qualitative. 2. Some objectives are untracked or vaguely addressed.		Approved with recommendations

	3. Strategic plan for the department aligned with the vision and mission statements		
Standard 02: Curriculum Design and Organisation			
The curriculum must be designed and organised to achieve the programme's objectives and outcomes. Also, module objectives must be in line with programme outcomes	1. Respective accreditation body/councils needed. 2. Information technology components of the curriculum must be integrated throughout the programme. 3. Ensure modules are applied and integrated throughout the programme.		Approved with conditions
Standard 03: Subject-specific Facilities			
Subject-specific facilities must be adequately available and accessible to faculty members and students to support teaching and research activities.	1. subject-specific facilities are need to be established for availability and use in the programme under assessment 2. Establishment of Business Incubation Centre for pilot Business Projects. 3. Research aspect needs more flourishing		Approved with recommendation
Standard 04: Student Advising and Counselling			
Students must have adequate support to complete the programme in a timely manner and must have ample opportunity to interact with their instructors and receive timely advice about programme requirements and career alternatives.	1. Making Opportunities available for students to interact with practitioners, and to have membership in technical and professional societies. 2. Need career counselling office in place		Approved with recommendations

	3. Need career placement services available to students 4. Need queries redressal system in place		
Standard 05: Teaching Faculty/Staff			
Teaching faculty/staff must be current and active in their discipline and have the necessary technical depth and breadth to support the programme. There must be enough department members to provide continuity and stability, to cover the curriculum adequately and effectively, and to allow for scholarly activities.	1. Teaching staff acquaintance with market knowledge current in the discipline. 2. Faculty should provide Information in the teaching staff member's CV that it is in line with the emerging trends in the higher education sector. 3. teaching staff is sufficient to deliver the programme curriculum and objectives		Approved with recommendations
Standard 06: Institutional Policies and Process Control			
The processes by which major functions are delivered must be in place, controlled, periodically reviewed, evaluated and continuously improved.	1. Process and functions are being established through which students are registered on the programme without any hassle and monitoring of students' progress. 2. Need procedures for department evaluation, and promotion must be consistent with the institution mission statement. 3. Business plan draft for the University		Approved
Standard 07: Institutional Support and Facilities			
The institution's support and the financial resources for the programme must be sufficient to provide an environment in which the programme can achieve its objectives and retain its strength. library, classrooms and offices, must be adequate to support the objective of the programme	1. Need the Financial resources provision to acquire and maintain library holdings, laboratories and computing facilities. 2. Library must possess an up-to-date technical collection relevant to the programme and must be adequately staffed with professional personnel.		Approved with recommendations

3. Classrooms need to be adequately equipped, and offices must be adequate to enable teaching staff to carry out their responsibilities.		
4. Smart class rooms are to be introduced in the university new academic block		

Standard 08: Institutional General Requirements

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 environment offers students quality opportunities and the support they need to achieve successful academic, personal and professional outcomes	1. University should focus on awarding the research degree after proper research related assignments are done. 2. Departmental MoU signing with the Stock Exchange 3. Ensure postgraduate research assessment processes are communicated clearly and fully to research students and supervisors. 4. GSC and Synopsis approval committees should be notified for research students in take. 5. Proposal defence information is to be circulated in the university campus to familiar students with the research technicalities and environment. 6. Research projects, NRPU's and other funding projects themes are to be shared with the students and make them research curious and motivated.		Approved with conditions.
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1. Chairman's Comments

The activity was very fruitful for the department.

Name and Signature:

Dr. Wadood / [Signature]

IQAE Panel Comments

1. Dr. Jehangir Khan, Coordinator QEC, University of Malakand

Self-RITPE for the department was conducted according to

The QAA-HEC guidelines and is shared for implementation plan

2. Dr. Shafqat Ullah Khan, Director QEC, University of Buner

Signatures:

i. Dr. Jehangir Khan

[Signature]

ii. Dr. Shafatqat Ullah Khan

[Signature]

Director
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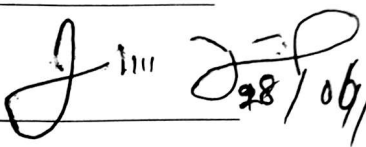
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VICE-CHANCELLOR
UNIVERSITY OF BUNER

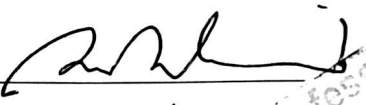
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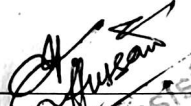
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Director QEC, UoB

Internal Member 

External Member  28/06/2025

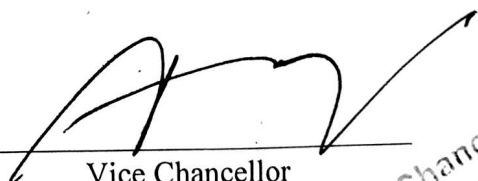
Internal Member 

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Internal Member 

Internal Member  **Director**
QEC University of Buner


Vice Chancellor
University of Buner
Vice Chancellor
University of Buner



IMPLEMENTATION PLAN

FREE-2024-25

IQA-CS

Department of Computer Science

Standard No.	Key Findings & Recommendations	Intended corrective actions Planned Corrective	Implementation Period	Responsible Body	Resources Required
Standard 01	Program, department, university missions are aligned; objectives are clear and mostly qualitative.	- Review and refine program objectives to make them SMART (Specific, Measurable, Achievable, Relevant, Time-bound). - Map CLOs → PLOs → University Mission formally. - Document alignment matrix and approve through BOS & Academic Council.	3–6 months	HoD, BOS, Quality Enhancement Cell (QEC)	Faculty time, QEC guidelines, documentation support
Standard 02	1. Qualitative accreditation body/council needed. 2. IT components must be integrated throughout the program.	- Establish linkages with PEC / NCEAC / HEC for regular academic audits. In Progress. - Revised curriculum to embed IT tools (AI, Data Science, Cloud, Cyber Security) across semesters. - Conduct curriculum review workshop with industry input.	6 months	HoD, Curriculum Committee, Industry Advisory Board	Training workshops, curriculum experts, industry liaison
Standard 03	1. Lab facilities need to be established for program enhancement. 2. Manuals/documentation/instructions required for labs.	- Establish missing labs (AI, Data Science, Networks, Software Engineering). - Procure required hardware/software. - Develop standardized lab manuals and safety SOPs. - Upload manuals to department repository.	6–12 months	HoD, Lab In-charge, Purchase Committee, Administration	PCs, servers, licensed software, lab manuals budget
Standard 04	1. Opportunities for students to interact with practitioners needed. 2. Career counseling office required.	- Sign MoUs with IT companies for internships and guest lectures. - Arrange industrial visits and alumni talks each semester. - Establish Career Counseling & Placement Desk in coordination with ORIC.	3–6 months	HoD, ORIC, Career Development Office	Guest speaker honorarium, travel funds, office space
Standard 05	Faculty should provide information on technical staff CVs and emerging trends.	- Develop and maintain updated CVs of technical staff. - Arrange training for technical staff on emerging technologies. - Maintain staff profiles on department website.	3 months (ongoing updates)	HoD, Technical Supervisor	Training funds, web support
Standard 06	Need clear procedures for department evaluation and promotion aligned with institution mission.	- Document transparent faculty evaluation & promotion policy. - Align policy with HEC & university statutes. - Communicate procedures to faculty through meetings and circulars.	3–4 months	HoD, HR Section, QEC	Policy documents, administrative support
Standard 07	Library must possess up-to-date technical collections relevant to the program.	- Procure latest textbooks, reference books, and IEEE/ACM digital resources. - Subscribe to e-journals and digital libraries.	6 months (annual review)	HoD, Chief Librarian	Library budget, digital subscriptions

		Coordinate with faculty for annual book recommendations.			
Standard 08	1. Research outcomes should be communicated clearly and fully to stakeholders. 2. GSC & Synopses approval committees should notify students/faculty. 3. Research-based defense info should be circulated.	- Develop research dissemination policy (seminars, website, newsletters). - Ensure GSC & defense schedules are officially notified via email/notice board. - Create departmental research portal showcasing publications & theses.	3–6 months	HoD, Graduate Studies Committee, ORIC	Website development, seminar budget

HoD/Chairman's Comments:

The Department of Computer Science is fully committed to continuous improvement in academic quality, research, and infrastructure in line with the mission of the University and the guidelines of the accreditation bodies. The findings and recommendations highlighted in this report have been carefully reviewed, and a comprehensive implementation plan has been developed with clearly defined actions, timelines, and responsible authorities.

The department has already initiated corrective measures in key areas including curriculum enhancement, laboratory development, faculty and technical staff capacity building, industry linkages, research dissemination, and student support services. These initiatives aim to ensure outcome-based education, strengthen research culture, and enhance graduate employability.

With the active support of the university administration, Quality Enhancement Cell, and all stakeholders, the department is confident that the proposed actions will be implemented effectively within the specified timeframes. Continuous monitoring and periodic review will be carried out to ensure sustainability, compliance with accreditation standards, and ongoing academic excellence.



Dr. Hameed Hussain

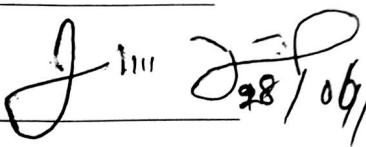
Director QEC's Comments

Name and Signature

IQC Approval:

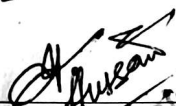
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Internal Member 

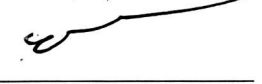
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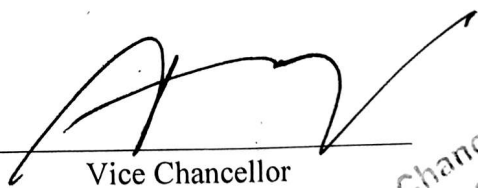
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Director
QEC University of Buner



Vice Chancellor
University of Buner

Vice Chancellor
University of Buner