

**Pakistan Engineering Council  
Engineering Accreditation Department**

**MINUTES OF 81<sup>ST</sup> EA&QEC/EAB MEETING HELD ON JANUARY 27, 2017  
AT PEC HEAD OFFICE, ISLAMABAD**

**Agenda Item No. 2: Consideration of PEC Visit Reports/Summaries and Rejoinders reviewed by Moderation Review Committee (MRC) for perusal of EA&QEC/EAB Decision**

Based on the review of the visitation reports, rejoinders from HEIs and taking into consideration the level of compliance towards various criteria/quality standards, particularly the breadth & depth of curriculum, Outcome-based assessment/evaluation and functioning of CQI, the decisions taken for each program of an HEI are summarized as under:-

<b>a.</b>	<b>Institute of Space Technology, Islamabad</b>	
<b>1)</b>	<b>Program</b>	<b>Bachelor of Science (B.S) in Electrical Engineering</b>
	Current Accreditation Status	From intake of Batch 2011 upto 2013
	Visit Type	Re-accreditation visit (Accreditation Manual-2014)
	Date of Visit	November 21-23, 2016
<p>Re-accreditation is granted for Three years i.e., Intake Batches 2014, 2015 &amp; 2016 under Level-II of First Schedule.</p> <p>However, the HEI is required to address the followings:</p> <ol style="list-style-type: none"> <li>a. Exposure to complex engineering problems / activities though reasonable in FYPs yet is limited in class projects, PBL assignments, etc. This exposure needs to be strengthened in all the Breadth &amp; Depth Core areas.</li> <li>b. Formal involvement of stakeholders should be enhanced and ensured at all levels (e.g. development and reviews of PEOs and Curriculum, industrial projects, research, etc.). Effective functioning of industrial advisory board should also be ensured.</li> <li>c. Providing more opportunities to students to demonstrate attainment of GAs through increased number of PLO assessments in major courses mapped, and thus ensuring required level of competency by the time of graduation.</li> <li>d. Formal training mechanism for the faculty development on pedagogical skills and assessment methodologies be ensured and practiced.</li> <li>e. Ensure implementation of appropriate corrective actions through internal CQI system.</li> </ol> <p>The Board also showed concern on higher intake than allowed with regard to facilities &amp; resource assessment for the program, and advised the institute to adhere to the intake policy strictly enabling the program to maintain conducive teaching, learning and assessment system/environment.</p> <p>The Institution, however, is expected to address all other concerns and weaknesses as reflected in the visitation report as a part of its CQI process before applying for subsequent re-accreditation visit.</p>		
<b>2)</b>	<b>Program</b>	<b>Bachelor of Science (B.S) in Materials Science &amp; Engineering</b>
	Current Accreditation Status	From intake of Batch 2008 upto 2013
	Visit Type	Re-accreditation visit (Accreditation Manual-2014)
	Date of Visit	November 21-23, 2016

Re-accreditation is granted for Three years i.e., Intake Batches 2014, 2015 & 2016 under Level-II of First Schedule.

However, the HEI is required to address the followings:

- a. Exposure to complex engineering problems/ activities especially in various class projects and through open-ended labs needs to be enhanced.
- b. Ensuring the opportunity for students to work in small groups in order to acquire the required skills through provisioning of sufficient number of work stations specifically in those labs mentioned in the report.
- c. Formal mechanism for training of faculty members in developing pedagogical skills and methodologies/techniques appropriate for assessment of program outcomes be in place.
- d. Internal CQI system is to ensure the implementation of all corrective actions for program, especially when it comes to evaluate/review student performance towards attainment of program's learning outcomes.
- e. Industrial advisory committee should be made effective in its functioning.

The Institution, however, is expected to address all other concerns and weaknesses as reflected in the visitation report as a part of its CQI process before applying for subsequent re-accreditation visit.

**b. Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi – Swabi**

<b>1)</b>	<b>Program</b>	<b>Bachelor of Science (B.Sc) in Electronics Engineering</b>
	Current Accreditation Status	Upto Intake of Batch 2012
	Visit Type	Re-accreditation visit (Accreditation Manual-2014)
	Date of Visit	November 23-25, 2016

Re-accreditation is granted for Two years i.e., Intake Batches 2013 & 2014 under Level-II of First Schedule.

However, the HEI is required to address the followings:

- a. Ensure reasonable (increased number of opportunities) assessment towards attainment of all 12 Program Learning Outcomes (PLOs), particularly for PLOs 6, 7 & 12. Assessment in Psychomotor and Affective domains needs attention for proper implementation.
- b. Although Final Year Projects (FYPs) were found to be challenging and of good standard; however, format and quality of FYP *Reports* be improved to demonstrate adequate coverage of various aspects (e.g. literature review, detailed analyses, design methodology, challenges / constraints, result discussions, etc.), and also provide evidence for various PLOs mapped/assessed through FYP using appropriate tools.
- c. Large class size as observed in Humanities courses, without proper academic support in terms of requisite number of TAs/RAs/Associate-Lecturers, is affecting academic counseling and quality of assessment, which should be addressed.
- d. CQI process should be institutionalized at all levels.

	<p>e. Strengthening of course contents for Computing and Mathematics subjects should be carried out to establish strong theoretical foundations.</p> <p>f. Indirect assessment of certain PLOs is in practice; though relevance of Internship and Exit surveys pertaining to these PLOs should be reviewed for appropriateness.</p> <p>g. Safety (EHS) aspects at the campus level needs to be strengthened further.</p> <p>The Board also showed concern on higher intake than allowed in relation to the facilities &amp; resource assessment, and advised the institute to adhere to PEC intake policy strictly enabling the program to maintain conducive teaching, learning and assessment system/environment.</p> <p>The Institution, however, is expected to address all other concerns and weaknesses as reflected in the visitation report as a part of its CQI process before applying for subsequent re-accreditation visit.</p>	
<b>2)</b>	<b>Program</b>	<b>Bachelor of Science (B.Sc) in Mechanical Engineering</b>
	Current Accreditation Status	Upto Intake of Batch 2013
	Visit Type	Re-accreditation visit (Accreditation Manual-2014)
	Date of Visit	November 23-25, 2016
	<p>Re-accreditation is granted for Four years i.e., Intake Batches 2014, 2015, 2016 &amp; 2017 under Level-II of First Schedule.</p> <p>However, the HEI is required to address the followings:</p> <p>a. Important core courses pertaining to design methodologies are being offered quite late in the curriculum scheme due to which the students don't get a chance to develop strong hold on those areas through employing these skills for relevant FYPs and therefore the same should be reviewed accordingly.</p> <p>b. Large class size as observed in Humanities courses, without proper academic support in the form of requisite number of TAs/RAs/Associate-Lecturers, is affecting academic counseling and the quality of assessment, which should be addressed. Further, class size in engineering courses and annual intake is also slightly on higher side and should be adhered to as per PEC guidelines.</p> <p>c. Safety (EHS) aspects at the campus level needs to be strengthened further.</p> <p>The Institution, however, is expected to address all other concerns and weaknesses as reflected in the visitation report as a part of its CQI process before applying for subsequent re-accreditation visit.</p>	
<b>c.</b>	<b>Institute of Space Technology, Islamabad</b>	
<b>1)</b>	Program	<b>Bachelor of Science (B.S) in Mechanical Engineering</b>
	Current Accreditation Status	First Accreditation Review
	Visit Type	Accreditation visit (Accreditation Manual-2014)
	Date of Visit	December 25-27, 2016

Accreditation is granted for Two years (as per policy -- being the first cycle of accreditation) i.e., Intake Batches 2012 & 2013 under Level-II of First Schedule.

However, the HEI is required to address the followings:

- a. Library space should be enhanced further with sufficient number of books in titles/volumes including subscription of relevant Journals for the Mechanical Engineering program as per HEC/PEC policy.
- b. Formal involvement of stakeholders should be enhanced/ensured at all levels, e.g. in formulation and reviews of PEOs, development/review of curriculum, industrial collaboration for research/design projects, etc.
- c. Mapping of CLOs with higher taxonomy level in some courses, particularly in non-engineering courses should be addressed properly.
- d. Formal training mechanism of faculty in pedagogical skills and assessment methodologies be in place.

The Institution, however, is expected to address all other concerns and weaknesses as reflected in the visitation report as a part of its CQI process before applying for subsequent re-accreditation visit.

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