

Pakistan Engineering Council  
Program Evaluation Report (Accreditation/Re-accreditation)

<Faculty of ----- Engineering>  
<Name of the HEI>

Rejoinder to PEC about Re-Accreditation Visit Report (Date of Visit)

Sr. No.	Criteria	Compliance Level	Observations and Remarks on Non-Compliance	Action Taken / Response by <HEI>
	<b>Criterion-1: Program Educational Objectives (PEOs)</b>			
i	Well-defined and published Institute Vision and Mission			
ii	PEOs are defined, consistent with the Vision / Mission, and well publicized.			
iii	Involvement of stakeholders in formulation / review of PEOs.			

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iv	A process in place to evaluate the attainment of PEOs.			
v	Evaluation results used for continual improvement of the program			
	<b>Criterion-2: Program Learning Outcomes (PLOs)</b>			
i	PLOs are well-defined and publicized.			
ii	PLOs are appropriately linked to PEOs			
iii	PLOs encompass all the required Graduate Attributes as defined in EAB Accreditation Manual			
iv	Mapping of Courses to PLOs			
v	Teaching-learning and assessment methods appropriate and supportive to the attainment of PLOs			
vi	Quality of assessment process to evaluate the attainment of PLOs at student as well as cohort levels through well-defined Key Performance Indicators (KPIs).			

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vii	Process in place by which assessment results are applied to further refine the assessment mechanism and/or redefine the program outcomes, thus leading to continuous improvement of the program			

Sr. No.	Criteria	Compliance Level	Observations and Remarks on Non-Compliance	
	<b>Criterion-3: Curriculum and Learning Process</b>			
i	Curriculum covers required breadth, depth and distribution of the program courses according to program specific (HEC/PEC NCRC curriculum) guidelines.			
ii	Curriculum provides balanced coverage of engineering and non-engineering contents in-line with National Engineering Qualifications Framework (NEQF)			
iii	Adequate exposure to Complex Engineering Problems (CEPs) and Activities			
iv	Availability of program specific well equipped labs to supplement theoretical knowledge/class room learning.			
v	Lab work supporting the attainment of the required skills and its assessment mechanism			
vi	CLOs defined for all courses with appropriate Learning-Levels, e.g. the ones			

	defined in Bloom's Taxonomy, and their mapping to relevant PLOs			
vii	Formal involvement of industry in curriculum development / revision			
viii	Employment of other aspects of student learning such as tutorial system and seminar / workshops, etc. to enhance student learning, in addition to regular classroom interaction and lab experimentation			
ix	Exposure to cooperative learning through supervised internship program with formal feedback from the employer			
x	Sufficient opportunities to invoke intuitiveness and originality of thought through Problem Based Learning (PBL), Design Projects and Open-Ended labs.			
xi	Assessment of various learning outcomes (PLOs/CLOs) employing appropriate direct / indirect methods.			
xii	Attainment of GAs in three domains (KSA); Summative assessment by the Graduating Students.			

Sr. No.	Criteria	Compliance Level	Observation and Remarks on Non-Compliance	
	<b>Criterion-4: Students</b>			
i	Admission Criteria meets / exceeds minimum eligibility criteria prescribed by PEC Regulations.			
ii	Annual intake is in-line with the maximum intake allowed by EAB for the program.			
iii	Well documented policy on transfer of students only from other accredited program			

	restricting transfer of less than 50% of Cr Hrs required for the degree.			
iv	Availability of designated student counselors to advise / counsel students regarding academic / career matters and provide assistance in managing their health, financial, stress, emotional and spiritual problems.			
v	Manageable class-size (around 40-50 for theory classes) and lab groups (2-3 students per workstation for hands-on type experiments, larger groups may be manageable for demonstration type)			
vi	Manageable semester academic load (i.e. 15-18 Cr. Hrs)			
vii	Completion of courses as evident from course-files and through student feedback			
viii	Students' participation in national / international engineering exhibitions and / or competitions, and facilitation by program for such participations			
ix	Quality of process to evaluate student performance and suggest / take corrective measures			

Sr. No.	Criteria	Compliance Level	Observations and Remarks on Non-Compliance	
	<b>Criterion-5: Faculty and Support Staff</b>			

i	Sufficient Faculty Strength for providing effective student-teacher interaction (student-teacher ratio should be as per PEC guidelines, i.e. better than 20:1)			
ii	Balanced faculty having appropriate qualifications (min. postgraduate with a reasonable percentage holding PhD) to cover all areas of program curriculum			
iii	Formal mechanism for faculty training and mentoring on pedagogical skills including OBE concepts and implementation methodologies.			
iv	Effectiveness of faculty development program to ensure their professional growth and retention.			
v	Reasonable faculty workload (as per PEC guidelines) including facilitation to young faculty pursuing higher studies.			
vi	Course files maintained as per PEC accreditation manual 2014 guidelines			
vii	Continuation of faculty research, publications and sponsored projects from industry/donor agencies, etc.			

viii	The program should be headed by a PhD senior faculty in relevant discipline. Reasonable mix of Senior and Junior qualified faculty be ensured.			
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Sr. No.	Criteria	Compliance Level	Observations and Remarks on Non-Compliance	
	<b>Criterion-6: Facilities and Infrastructure</b>			
i	Adequacy of teaching and learning facilities, e.g. classroom environment and availability of various teaching aids, etc.			
ii	Provision of program specific labs (as per curriculum), workshops, and associated lab equipment for complementing the class / theory work.			
iii	Adequacy of library resources and facilities.			
iv	Provision of sufficient computing facilities and internet access / resources allocated for the program.			
v	Provision and effectiveness of consulting and career placement services provided to the students			
vi	Adequacy of support facilities such as hostels, sports and recreational centers,			

	health care centers, student centers, and transport facilities			
vii	Adequacy of arrangements made / measures taken to ensure work-place safety (EHS concerns) in general, and while performing experiments in the labs. in particular			
<b>Sr. No.</b>	<b>Criteria</b>	<b>Compliance Level</b>	<b>Observations and Remarks on Non-Compliance</b>	
	<b>Criterion-7: Institutional Support and Financial Resources</b>			
i	Adequacy of institutional financial resources to ensure program's sustainability and meeting of recurring as well as developmental requirements.			
ii	Evidence of continued financial commitment in the form of increasing endowment and recurring /development budget since last accreditation visit.			
iii	Provision of funding for R&D pursuits and presentations/publication of research papers			

<b>Sr. No.</b>	<b>Criteria</b>	<b>Compliance Level</b>	<b>Observations and Remarks on Non-Compliance</b>	
	<b>Criterion-8: Continuous Quality Improvement (CQI)</b>			
i	CQI process is well documented and institutionalized at all levels (CLOs, PLOs and PEOs).			

ii	Actions taken / implementation plans worked out to address the concerns/weaknesses identified in the last accreditation visit report.			
iii	Improvement in Faculty Strength / Qualifications since last accreditation visit			
iv	Improvement in Student-Teacher Ratio since last accreditation visit			
v	Continuation of Faculty Publications, R&D and Consultancy activities			
vi	Addition of any new facilities, i.e. infrastructure, lab equipment, teaching aids, etc. to assist in the attainment of program objectives / outcomes, since last accreditation visit			
vii	New initiative(s) taken since last accreditation visit (including but not limited to OBE implementation, content delivery, assessment and evaluation processes, etc.)			
<b>Sr. No.</b>	<b>Criteria</b>	<b>Compliance Level</b>	<b>Observations and Remarks on Non-Compliance</b>	
	<b>Criterion-9: Industrial Linkages</b>			
i	Existence of active Industrial Advisory Board/Committee			
ii	Formal mechanism for seeking feedback from Industry and its analysis for the attainment of PEOs			
iii	Opportunities for students to acquire industrial experience via internship and existence of Industry-Liaison office			
iv	Design projects sponsored / supervised jointly by Industry Professionals and faculty members			

v	Faculty members involved in design / supervision / consultancy role with the industry in the execution of applied research / design projects that are relevant to society / industrial			
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## RECOMMENDATIONS BY VISITATION TEAM

The institute had applied for accreditation under the new Accreditation Manual-2014, i.e. as a Level II institute, practicing Outcome-Based Education system. Based on the OBE system of accreditation, the team evaluated the program of << program name >> for its compliance to the nine (9) accreditation criteria and found some deficiencies/weaknesses/concerns primarily related to the compliance of << List of Criteria >>

As a result, the team recommends to EAB that the program may be accredited as a Level II institute under the new Accreditation Manual 2014 for a period of <\_\_\_\_\_> years, i.e. for intake batches<\_\_\_\_\_>.

Signatures:

\_\_\_\_\_  
Name of Subject Expert:                      Expert < >Engineering

\_\_\_\_\_  
Name of Subject Expert:                      Expert < >Engineering

\_\_\_\_\_  
Name of Industrial Expert:                      Expert < >Engineering

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Name of Convener / Team Lead:                      Convener < >Engineering

\_\_\_\_\_  
Name of PEC Rep

PEC Representative

Dated: \_\_\_\_\_