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 For Non-Compliance	Action Taken / Response by <HEI>
	Criterion-1: Program Educational Objectives (PEOs)			
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.	-		
iv	A process in place to evaluate the attainment of PEOs.	-		
v	Evaluation results used for continual improvement of the program	-		

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	Criterion-2: Program Learning Outcomes (PLOs)			
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).	-		
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	-		

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	Criterion-3: Curriculum and Learning Process			
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	Benchmarking of curriculum carried out with National / International best practices – Washington Accord (WA) recognized programs	-		
viii	Formal involvement of industry in curriculum development / revision	-		
ix	Employment of other aspects of student learning such as tutorial system and seminar / workshops, etc. to enhance student	-		

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	learning, in addition to regular classroom interaction and lab experimentation			
x	Exposure to cooperative learning through supervised internship program with formal feedback from the employer	-		
xi	Sufficient opportunities to invoke intuitiveness and originality of thought through Problem Based Learning (PBL), Design Projects and Open-Ended labs.	-		
xii	Assessment of various learning outcomes (PLOs/CLOs) employing appropriate direct / indirect methods.	-		
	Criterion-4: Students			
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	Efforts made to provide off-class academic counseling such as through engaging RAs/TAs/GAs holding scheduled tutorials, problem solving sessions etc. Regular office hours announced by faculty is the minimum expectation.	-		
v	Availability of designated student counselors to advise / counsel students regarding academic / career matters and provide assistance in managing their health,	-		

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	financial, stress, emotional and spiritual problems.			
vi	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)	-		
vii	Manageable semester academic load (i.e. 15-18 Cr. Hrs)	-		
viii	Completion of courses as evident from course-files and through student feedback	-		
ix	Students' participation in national / international engineering exhibitions and / or competitions, and facilitation by program for such participations	-		
x	Quality of process to evaluate student performance and suggest / take corrective measures	-		
	Criterion-5: Faculty and Support Staff			
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	-		

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	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	Continuation of faculty research, publications and sponsored projects from industry/donor agencies, etc.	-		
vii	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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	Criterion-6: Facilities and Infrastructure			
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	-		

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	Criterion-7: Institutional Support and Financial Resources			
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			
	Criterion-8: Continuous Quality Improvement (CQI)			
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	-		

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	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.)	-		
	Criterion-9: Industrial Linkages			
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 industrial projects	-		