

ACCREDITATION MANUAL

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Outline

- Will cover mainly two areas:
 - Major changes in decision process







Outcomes-based Accreditation Manual

- In July 2016, a Task Force was formed for Preparing an Outcomes-based Accreditation Manual
 - Prof. SJM Yasin, CE, BUET [Convener]
 - Prof. Anisul Haque, EEE, EWU & BAETE [Member]
 - 3. Prof. Md. Sirajul Islam, CE, NSU [Member]
 - 4. Dr. Salekul Islam, Head, CSE, UIU [Member]
 - 5. Prof. AFM Saiful Amin, BAETE & CE, BUET [Member]
- Inputs from Mentors from Singapore and Malaysia
- Effective from 1 July 2017



Who can apply?

- Program approved by an appropriate authority
- Program duration is four years
- Admission after at least 12 years of schooling
- At least one batch has graduated
- Program follows Outcome-Based-Education
- Minimum total credit hours is 130
- (1 credit of lecture ≥ 750 minutes of formal BOARD OF ACCREDITATION FOR ENGINEERING AND DECENTION FOR ENGINEERING AND DECENTI

Calculating Minimum Credit Hours

- For example a 3 credit theory course has 2 classes/week, class length is 1 hr 20 minutes (= 160 minutes)/week, a trimester has 13 weeks
 - In total, the course has $160 \times 13 = 2080$ minutes
 - This 3 credit theory will be equivalent to 2080/750 = 2.77 credit
- Another example, a 1 credit lab/sessional course has 150 minutes/ week, a trimester has 13 weeks
 - In total, the course has 150x13 = 1950 minutes
 - This 1 credit lab will be equivalent to 1950/1500 = 1.30 credit
- A program may offer more/less than 130 credits
- 1 credit theory (lab) classes may be more/less than 750 (1500) minutes per semester
- Total credits should be mapped following above example and then must be at least 130 credits.

Sectoral Committees (new responsibilities)

- Committees for different engineering programs
- Three members, one of whom serves as the Chair, for a period of three years
- Sectoral Committee members should not be a member of a current Evaluation Team or the Board
- Responsibilities:
 - A member may accompany the Evaluation Team for onsite moderation
 - Scrutinize the report submitted by the Evaluation Team
 - Submit independent recommendations and forward the report of the Evaluation Team to the Board



Appellate Committee

- Newly introduced, an independent committee
- Three members, including the Chair
- If an institution is not satisfied with the accreditation decision, it may apply for a review
- Members are appointed by the President, IEB after discussion with the Chair of the IEB Ethics Committee
- Selected from former members of the Board,
 Sectoral Committee members or Chairs of the Evaluation Teams



Important terminologies

Compliance

- Adequately satisfied the benchmark requirements.
- No corrective measure is required

Concern

- Broadly in compliance but requires improvement
- Currently in compliance but there is chance for the situation to change, resulting in noncompliance in future.

Weakness

- Lacks strength of compliance, leading to compromise the quality of the program.
- Corrective measures are required

Deficiency

 Either does not exist or is in the elementary stage. Compliance is required.



Accreditation decision

- No marking system
- No grades, like 'A', 'B' or 'C'
- Either 'Accredited' or 'Not Accredited'
- If Accredited then maximum length is 6 years
- All 10 criteria will be evaluated separately as compliance/concern/weakness/deficiency
- Evaluation will be evidence based: recommendations must be supported with reasons



Accreditation decision

Deficiency	Weakness	Decision
None	None	Maximum 6 years
None	Weakness found in not more than three criteria	Shorter than 6 years
Any deficiency identified in Any Maiteriogram	n may reapply a	Not Accredited (NA) after 1 year



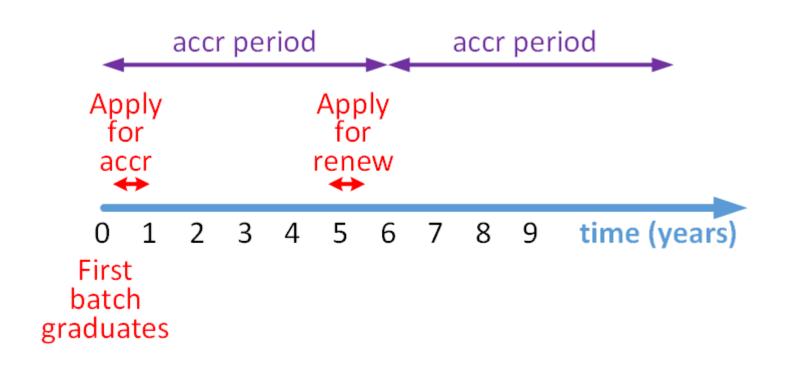
Renewal

- Needs to reapply at least 6 months before the expiry of current accreditation
- Evaluation processes for renewal are the same as the processes for new application
- SAR needs to describe how shortcomings identified in the previous evaluation have been addressed, particularly through CQI

Failure to apply/reapply on time may lead to graduation of non-accredited batches

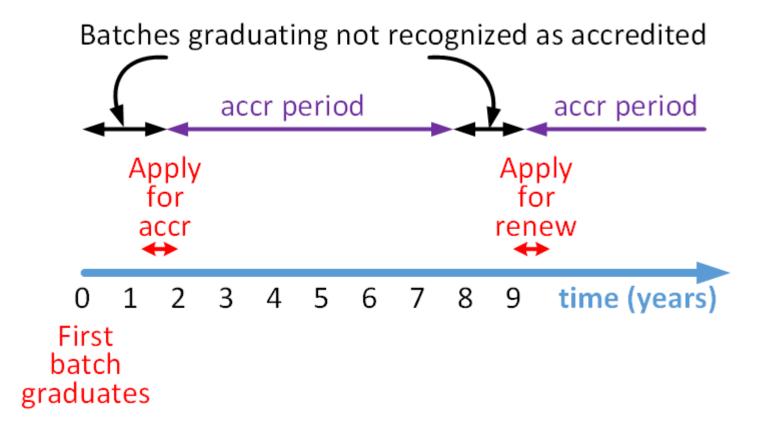


Example of all batches graduating with accreditation





Example of some batches graduating without accreditation





Steps in Accreditation Procedure

Steps	Expected time	
Formation of evaluation team	3 weeks	
Reservation from institution	1 week	
On-site visit	12 weeks	
Evaluation team report	3 weeks	
Scrutiny by sectoral committee	2 weeks	
Fact correction by institution	1 week	
Recommendation by sectoral committee	2 weeks	
Decision of the Board	16 weeks	



Activities of the Evaluation Team

- Pre-visit activities
 - If significant deficiencies are found in the SAR, the Evaluation Team may recommend Not Accredited (NA) before the visit
- Accreditation Visit
 - Will be discussed in detail during the afternoon session
- Post-visit activities
 - Submitting the recommendation report



Assessment Criteria

- 1. Organization and Governance
- 2. Financial and Physical Resources
- з. **Faculty**
- 4. Students
- 5. Academic Facilities and Technical Support
- 6. Curriculum and Teaching-Learning Processes
- 7. Program Educational Objectives (PEO)
- 8. Program Outcomes and Assessment
- 9. Continuous Quality Improvement (CQI)
- 10. Interactions with the Industry



Criterion 1: Organization and Governance (1)

- 1. Compliance with relevant acts and statutes
- 2. Statutory positions and bodies of the institution
 - Appointment of VC, Pro-VC and Treasurer
 - Formation of the statutory bodies
 - Function of the statutory bodies
- 3. Existence of and adherence to policies
 - Documented (booklet, brochure, webpage) policies: Service rules, academic rules, code of conduct, disciplinary code, recruitment and promotion policies, salary structure, leave rules, and scholarship and financial aid policies
 - Adherence to policies



Criterion 1: Organization and Governance (2)

4. Grievance redress system

 Existence of a grievance redress mechanism

5. Alumni association

- Information about its formation, membership and operating process
- 6. Convocation



Criterion 2: Financial and Physical Resources (1)

- 1. Finance and budget
 - Assets with respect to revenue

Information	Year 1	Year 2	Year 3
Total income (BDT)		72	
Total expenditure (BDT)		TEC	
Total asset (BDT)			

- Adequacy of budget
- Appropriateness of budgetary allocation
- 2. Scholarships and financial aid for students
- 3. Accommodations for male and female students



Criterion 2: Financial and Physical Resources (2)

- 4. Safety measures: infrastructure, practices, training and compliance
 - Firefighting policy, facility and rehearsal;
 - Emergency evacuation and assembly plan and rehearsal;
 - Campus safety and security measures in place
- 5. Sports and recreational facilities
- 6. Placement center



Criterion 3: Faculty (1)

- 1. Number of full-time faculty members
- 2. Number of part-time faculty members
- 3. Class size: minimum/maximum/average class size of all courses/sections in last three years
- 4. Student-teacher ratio:
 - For each semester during last three years
 - No specific method has been proposed, justify the appropriateness of the method being used
- 5. Involvement of faculty members in research, development and professional activities



Criterion 3: Faculty (2)

- 6. Role of faculty members in directing the course and the improvements of the program
 - Faculty involvements in course outcomes, selecting appropriate pedagogical and assessment tools, updating course content, and making decisions regarding quality improvements to the program.
 - Submit copies of the minutes of relevant faculty meetings
- 7. Training of faculty members on outcomebased education



Criterion 4: Students (1)

- 1. Admission policy, including admission criteria
 - State any preference/priority/quota in admission
- 2. Policy for transfer students
- 3. Continuous monitoring of student performance
 - Feedback to students regarding their academic performance and outcome achievement
 - Corrective measures for students who fall behind
- 4. Advising and counseling
 - Any professional counseling support to students in need



Criterion 4: Students (2)

- 5. Extra- and co-curricular activities
 - How these activities are supported institutionally
 - List students who participated in student activities
 - Mention notable achievements, if any.
- 6. Professional society activities
 - Professional societies that have a student branch/chapter



Criterion 5: Academic Facilities and Technical Support

- 1. Library
 - Space and hours of operation
 - Library resources (books, journals, proceedings, etc.)
 - Modernization of the library
- 2. Classrooms
- 3. Laboratories and equipment
 - Laboratories for all relevant courses of the curriculum
 - Availability of equipment
- 4. Full-time technical support staff for laboratories
- 5. Internet and computing facilities



Criterion 6: Curriculum and Teaching-Learning Processes (1)

1. Curriculum

Minimum credit hours expressed in contact hours with formula used

Minimum total credit hours for the program is 130

Lecture Classes: One credit = minimum 750 minutes contact hours

Laboratory Classes: One credit = minimum 1500 minutes contact hours

- Course content
- Flow chart: semester-by-semester flow chart of the program
- List of offer
 - OS, assessment tools for each CO, and grading policy
- Course files
- Questions and sample for each exam, class test and quiz
- Laboratory sheet and examples of laboratory reports
- Assessment criteria or rubrics for assignment/project reports
- Final grade assigned to each student
- Assessment and analysis of outcome achievement
- The course instructor's recommendations for CQI



Criterion 6: Curriculum and Teaching-Learning Processes (2)

- 2. Laboratory activities
 - List of experiments/project/assignment conducted in each lab course
- 3. Final-year design project
- 4. Teaching-learning activities
 - Interactive/non-traditional activities adopted for different courses, noting the course and the activity.
- 5. Academic calendar



Criterion 7: Program Educational Objectives (PEOs) (1)

- Mission and Vision of the institution and the program
- 2. PEOs: Statements and their relationship or Mapping Withtut Pelmisticutional vision and Mission Mission Mission Statement Statement Statement 1 2

No. PO PEO 1 PEO 2 PEO n

3. Rela្ស្រីប៉ាំទីពី១ between the POs and PEOs



Criterion 7: Program Educational Objectives (PEOs) (2)

- 4. Process for PEO measurement
 - Process used to measure the achievement of each PEO.
 - Documents (meeting minutes, survey results, etc.) that support the assertion.
 - How different stakeholders are involved
 - How the PEO measurement results are used to redefine and improve the PEOs (CQI).



Criterion 8: Program Outcomes (POs) and Assessment (1)

- Course outcomes (COs)
 - Statements of COs

SI. COs Correspo Bloom's Delivery Assessment No. nding taxonomy methods & tools POs domain/lev activities el

- Assessment of COs: how the attainment of COs is assessed, submit evidence of CO assessment
- 2. Relationship between CQs and POs ... POn no.



Criterion 8: Program Outcomes (POs) and Assessment (2)

- 3. Achievement of POs required by the BAETE
 - Evidence that each PO has been achieved by the time of graduation.
 - Justify the assessment tools and assessment criteria
- 4. Achievement of additional POs
 - required by the department/school/faculty/institution



Criterion 9: Continuous Quality Improvement (CQI) (1)

1. Feedback from students

- Student evaluation of courses
- Student survey: department/institution conducts a periodic survey of the students to assess the level of outcome achievements
- How all these feedbacks from different stakeholders are utilized to update PEOs/POs/COs/curriculum/delivery and assessment methods. Provide copies of documents (meeting minutes, analysis reports, etc.) that support the given explanation



Criterion 9: Continuous Quality Improvement (CQI) (2)

- 3. Feedback from external stakeholders
 - Feedback from alumni and employers
 - Provide survey results, meeting minutes
- 4. CQI loops
 - For COs, POs and PEOs. How achievements of outcomes and objectives are assessed, analyses are conducted and improvements are made
- 5. Addressing deficiencies, weaknesses and concerns identified during the previous accreditation visit

Statement Remedial actions Improvements taken made

Deficiencies Weaknesses Concerns



Criterion 10: Interactions with the industry

- 1. Industrial advisory panel
- 2. Participation of the industry in academic updates
- 3. Students' opportunities to gain industrial experience
 - Internship
 - Final-year design project
 - Industry visits

