



Manual for Accreditation of
Postgraduate Engineering Programs

National Board of Accreditation
New Delhi

Manual

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Postgraduate Engineering Programs



National Board of Accreditation (NBA)
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Vision

To be an accrediting agency of international standard by ensuring the highest degree of credibility in assurance of quality and relevance to professional education and come up to the expectations of its stakeholder's viz., academicians, corporates, educational institutions, government, industry, regulators, students and their parents..



Mission

To stimulate the quality of teaching, self-evaluation and accountability in the higher education system, which help institutions realize their academic objectives and adopt teaching practices that enable them to produce high-quality professionals and to assess and accredit the programs offered by the institutions imparting technical and professional education.

TABLE OF CONTENTS

1. Introduction	1-3
1.1 National Board of Accreditation	1
1.2 Objectives	1
1.3 Governance Structure	2
1.4 Washington Accord	3
2. Accreditation Policy	4-6
2.1 General Information on Accreditation	4
2.2 Outcome-based Education and Accreditation	6
3. Accreditation Criteria	7-11
3.1 Terminology in Accreditation	7
3.2 Program Outcomes (POs) and Program-specific Outcomes (PSOs)	8
3.3 Accreditation Criteria	8
3.4 Accreditation Criteria Marks Distribution	11
4. Accreditation Process	12-24
4.1 Accreditation Stages	12
4.2 Award of Accreditation	21
4.3 Appeal	22
4.4 Accreditation Fee	23
4.5 Reconsideration of Program	24

ANNEXURES

- I) Fee Structure
- II) Pre-qualifiers
- III) Self-Assessment Report (SAR)
Documents regarding Visit of Experts
- IV) Visit Schedule
- V) List of Documents to be Verified during the Visit
- VI) Evaluation Guidelines
- VII) Chairperson's Visit Report (Part A and C)
- VIII) Evaluator's Visit Report (Part A, B and C)
- IX) Certificate of Participation (to be filled-in by the Chairman of the Visiting Team)
- X) Certificate to be filled by Institution
- XI) Feedback to be filled by Institution
- XII) Feedback to be filled by the Visiting Team regarding the Service Provider

PART-1

1.0 Introduction

1.1. National Board of Accreditation

The National Board of Accreditation (NBA) was set-up in September 1994 by the AICTE to assess the qualitative competence of the programs offered by technical and professional educational institutions from diploma level to post-graduate level in engineering and technology, management, pharmacy, architecture and related disciplines, which are approved by appropriate statutory regulatory bodies.

NBA came into existence as an independent autonomous body with effect from 7th January 2010 with the objectives of assurance of quality and relevance to technical education, especially of the programs in technical disciplines, i.e., Engineering and Technology, Management, Architecture, Pharmacy and Hospitality etc., through the mechanism of accreditation of programs offered by technical and professional institutions. The Memorandum of Association and Rules of NBA were amended in April 2013, to make it completely independent of AICTE, administratively as well as financially. NBA conducts evaluation of programs of technical institutions based on evaluation criteria and parameters laid down by its Committees and Council.

NBA works closely with all the stakeholders to ensure that the programs serve to equip graduates with sound knowledge of fundamentals of the discipline and to develop in them an acceptable level of professional competence that would meet the needs of profession and be adequate for the responsible fulfilment of professional assignments.

1.2. Objectives

Major objectives of the NBA for engineering education are as follows:

- ☞ To assess and accredit the engineering education programs at diploma, degree and post-graduate level;
- ☞ To evolve standards and parameters for assessment and accreditation in line with the parameters laid down by the appropriate statutory regulatory authority for co-ordination, determination and regulation of standards in the concerned field of technical education;
- ☞ To promote excellence through a benchmarking process, which is helpful in determining whether or not an institution is able to achieve its mission and broad-based goals, and in interpreting the results of the outcomes assessment process;
- ☞ To promote quality conscious system of technical education where excellence, relevance to market needs and participation by all stakeholders are prime and major determinants.

- ☞ To build a technical education system as facilitator of human resources, that will match the national goals of growth by competence, contribution to economy through competitiveness and compatibility with societal development;
- ☞ To set the quality benchmarks targeted at global and national stockpile of human capital in all fields of technical education;
- ☞ To conduct evaluation of self-assessment of technical institutions and/or programs offered by them on the basis of guidelines, norms and standards specified by it; and
- ☞ To contribute to the domain of knowledge in quality parameters, assessment and evaluation.

1.3. Governance Structure

The NBA is empowered by its Memorandum of Association (MoA). The governance of NBA is effected through the following three statutory committees enshrined in its MoA:

- i) **The General Council (GC)**
- ii) **The Executive Committee (EC)**
- iii) **The Academic Advisory Committee (AAC)**

Details of the constitution, functions and responsibilities of the above Committees are provided in the MoA of NBA and are available at

<http://www.nbaind.org/files/moa-rules-of-society.pdf>

All these committees are chaired by the Chairman, NBA.

Member Secretary is the Member Secretary of these committees. Member Secretary is the Executive Authority of NBA.

Besides, the NBA also have the following other committees and sub-committees:

- ☞ **Sub-Committee of AAC of Engineering & Technology** functions separately to evolve standard for assessment and accreditation, to form assessors' panels, to lay down guidelines for assessors, to evaluate and approve the recommendations of the Evaluation and Accreditation Committee (EAC).
- ☞ **Evaluation and Accreditation Committee (EAC)** of Engineering & Technology reviews the reports of the evaluation team and submits its recommendations on accreditation to the Sub Committee of AAC.

- ☞ **Appellate Committee** considers the appeal applications made by the institutions against the decision on accreditation of a program by NBA and gives its recommendations to the Academic Advisory Committee (AAC).

1.4. Washington Accord

The Washington Accord is an international and multi-lateral agreement among bodies responsible for accrediting undergraduate engineering degree programs, originally signed among six countries in 1989. It recognizes the substantial equivalency of programs accredited by bodies that are its signatory and recommends that graduates of programs accredited by any of the signatory bodies be recognized mutually as having met the academic requirements for entry to the practice of engineering in the area of their jurisdiction. The NBA became a provisional member of the Washington Accord (WA) in 2007 and was given the status of permanent signatory on 13th June 2014. Signatory status is subject to the condition that only programs with Tier I institutions accredited by NBA are eligible for mutual recognition under the Washington Accord. However, post graduate programs accredited by NBA of Tier -I institutions are not eligible for mutual recognition under Washington Accord.

PART - II

2.0 Accreditation Policy

2.1. General Information on Accreditation

The following general policies are the guiding principles for accreditation of programs offered by various technical institutions:

- i) NBA accredits technical Programs of institutions and not the Institution or its Departments/Centres as a whole.
- ii) Institutions are required to apply for accreditation through eNBA portal as per norms prescribed by NBA from time-to-time.
- iii) Programs to be accredited should be offered by an educational Institution, which has been formally approved by the AICTE or the concerned regulatory authority.
- iv) Programs from which at least two batches of students have graduated are considered for accreditation. The program should continuously be running without break with approval of the concerned regulatory authority during the whole duration of last two batches (for example: 3 years for PG engineering, etc.).
- v) The institution is required to pay accreditation fee as prescribed by NBA from time-to-time. The application fee is payable in two phases – 10 per cent at the time of submission of Pre-Qualifiers and balance 90 per cent fee at the time of submission of SAR once the Pre-Qualifiers are approved.
- vi) The institution must submit Self-Assessment Report (SAR) online through e-NBA portal in the prescribed format in respect of each program proposed for accreditation.
- vii) The title of a program to be accredited must be the same as shown on the graduating student's degree and the approval letters of the concerned regulatory authority.
- viii) Visiting Team, while evaluating the programs, should ascertain overlapping of resources and faculty for programs in an institution where AICTE has granted approval for 1st shift and 2nd shift.
- ix) Part-time programs are not considered for accreditation.
- x) Programs are evaluated in accordance with the accreditation criteria as specified by NBA.
- xi) Institutions are required to represent the accreditation status of each program

accurately and without ambiguity. If accreditation is withdrawn or discontinued or expires, the institution should no longer refer to the program as accredited.

- xii) A two/three day's onsite visit is a part of the accreditation process. A Visiting Team appointed by the NBA carries out the evaluation of the program. The institution is required to propose such sets of dates for the visit when the regular classes and all academic activities of the program applied for, are going on.
- xiii) Institutions have the option of withdrawing a program during the exit meeting of the visit. The institution shall handover a written request to the Team chair during the exit meeting. No communication regarding withdrawal will be accepted after the visiting team has left the institution. No fee would be refunded in such cases.
- xiv) The final decision made by the NBA is communicated to the educational institution, together with comments detailing strengths, weaknesses and scope for improvement.
- xv) A copy of the report of the visiting team is sent to the institution along with the accreditation status in order to maintain the transparency. In the event of change of the decision from the visiting team to the decision-making team, the reasons for changes are also conveyed along with the visiting team report.
- xvi) If an institution is not satisfied with the decision of NBA regarding accreditation status, it may appeal against the decision to the Appellate Committee (AC) of NBA within 30 days of receipt of the communication.
- xvii) Commencement of Accreditation Period:
 - ☞ In case visit of the Expert (Visiting) Team to an Institution is conducted between 1st July - 31st December, the Period of accreditation would commence from the on-going academic year (i.e. with effect from 1st July of the on-going academic year).
 - ☞ In case visit is conducted between 1st January to 30th June, the accreditation period would be from the next academic year (i.e. with effect from 1st July of the next academic year).
 - ☞ Same rules apply for deciding the validity period of accreditation periods of programs in appeal cases also.
- xviii) If a program is 'not accredited' or withdrawn during the visit, a fresh application for accreditation of the same program can be considered one year after the date of previous visit of the Visiting Team.

- xix) If an institution requests postponement of the visit of the expert team after the team has already been constituted for the purpose, an additional fee of 25% shall be required to be paid before the visit is rescheduled. If the institution causes cancellation of the visit after the team has already been constituted for the purpose, there would be a cancellation fee of 25% deducted from the fees paid by the institution. In case, an institution requests for withdrawal of the program(s) applied by it after application has been approved by the NBA for further processing and the fee has been paid by the institution, 10% of the accreditation fee per program may be deducted while refunding the fee as per the request of the institution.

For consideration of accreditation of a Postgraduate Engineering program, it is mandatory that the corresponding Undergraduate engineering program should have valid accreditation on the date of application. However, this does not apply in cases for special PG engineering programs that may not have a corresponding UG engineering program running in the Institution. The special PG engineering programs will be considered on case-to-case basis.

2.2. Outcome-based Education and Accreditation

Outcome based education is targeted at achieving desirable outcomes (in terms of knowledge, skills, attitudes and behaviour) at the end of a program. Teaching with this awareness and making the associated effort constitutes outcome based education. This entails a regular methodology for ascertaining the attainment of outcomes, and benchmarking these against the program outcomes consistent with the objectives of the program.

Initially, NBA accreditation used to be based on 'input - process - output' model with major emphasis on availability of resources / facilities and the outputs thereof. In the year 2009, NBA aligned its methodology with international benchmarks and started accreditation on the basis of outcomes. It believes that educational quality must be measured by outcomes rather than inputs, because inputs do not necessarily correlate with quality outcomes. Outcomes are dependent not only on inputs but also on the processes followed by an institution to convert inputs into defined outcomes.

PART - III

3.0 Accreditation Criteria

3.1. Terminology in Accreditation

The assessment and evaluation process of accreditation of an postgraduate engineering program is based on 6 broad criteria developed through a participatory process involving experts from reputed national-level technical institutions, industries, R&D organizations and professional bodies. Each criterion relates to a major feature of institutional activity and its effectiveness. The criteria have been formulated in terms of parameters, including quantitative measurements that have been designed for maximal objective assessment of each feature.

The definitions of the terms used in this manual are as follows:

- (a) **Mission and Vision Statement** – Mission statements are essentially the means to achieve the vision of the institution. For example, if the vision is to create high-quality engineering professionals, then the mission could be to offer a well-balanced program of instruction, practical experience, and opportunities for overall personality development. Vision is a futuristic statement that the institution would like to achieve over a long period of time, and Mission is the means by which it proposes to move toward the stated Vision.
- (b) **Program Educational Objectives (PEOs)** – Program education objectives are broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.
- (c) **Program Outcomes (POs)** – Program Outcomes are statements that describe what students are expected to know and be able to do upon graduating from the Program. These relate to the skills, knowledge, attitude and behaviour that students acquire through the program. NBA has defined the Program Outcomes for each discipline.
- (d) **Assessment** – Assessment is one or more processes, carried out by the institution, that identify, collect, and prepare data to evaluate the achievement of program educational objectives and program outcomes.
- (e) **Evaluation** – Evaluation is one or more processes, done by the evaluation team, for interpreting the data and evidence accumulated through assessment practices. Evaluation determines the extent to which program education objectives or program outcomes are being achieved, and results in decisions and actions to improve the program.

(f) **Mapping** - Mapping is the process of representing, preferably in matrix form, the correlation among the parameters. It may be done for one to many, many to one, and many to many parameters.

(g) **Rubrics**: Rubrics provide a powerful tool for assessment and grading of student work. They can also serve as a transparent and inspiring guide to learning. Rubrics are scoring, or grading tool used to measure a students' performance and learning across a set of criteria and objectives. Rubrics communicate to students (and to other markers) your expectations in the assessment, and what you consider important.

3.2. Program Outcomes (POs)

3.2.1. Program Outcomes (POs)

POs are statements that describe what students are expected to know and be able to do upon graduating from the program. These relate to the skills, knowledge, analytical ability attitude and behaviour that students acquire through the program.

The POs essentially indicate what the students can do from subject-wise knowledge acquired by them during the program. As such, POs define the professional profile of a graduate of PG Engineering Program.

NBA has defined the following three POs for a graduate of PG Engineering Program:

- i) **PO1**: An ability to independently carry out research /investigation and development work to solve practical problems.
- ii) **PO2**: An ability to write and present a substantial technical report/document.
- iii) **PO3**: Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program

3.3 Accreditation Criteria

3.3.1 Criterion 1- Program Curriculum and Teaching-Learning Processes

Program should describe the process that periodically documents and demonstrates how the program curriculum is evolved considering the Program Outcomes. The structure of the curriculum shall comprise of course code, course title, total number of contact hours (lecture, tutorial and practical) and credits. Program curriculum grouping based on course components such as core, elective, mini and major projects, internship/seminars, tec. shall

also indicated. The process to identify the extent of compliance of the curriculum for attaining the Program Outcomes (POs) shall be articulated.

Program should include methods followed to improve quality of Quality of end semester examination, internal semester question papers, assignments and evaluation, Quality of student projects, Quality of the project, Initiatives related to industry interaction including industry internship/summer training, Participation of Industry professionals in curriculum development, as examiners, in major projects, Quality of laboratory work given and steps taken to ascertain the same.

The initiatives, implementation details and impact analysis for various parameters as per the format are to be provided in SAR.

3.3.2 Criterion 2- Program Outcomes

Precise illustrations of program articulation matrix, modes of delivery of the courses, how assessment tools are used to assess the impact of course delivery / course content, and how laboratory and project work are contributing towards the attainment of the POs, shall be clearly outlined in the Program.

The attainment of POs may be assessed by direct and indirect methods. Direct methods of assessment are essentially accomplished by the direct examination or observation of students' knowledge or skills against measurable performance indicators. On the other hand, indirect methods of assessment are based on ascertaining opinion or self-report. Rubric is a useful tool for indirect assessment. A rubric basically articulates the expectations for students' performance. It is a set of criteria for assessing students' work or performance. Rubric is particularly suited to Program Outcomes that are complex or not easily quantifiable for which there are no clear "right" or "wrong" answers or which are not evaluated with the standardized tests or surveys. For example, assessment of writing, oral communication, or critical thinking often require rubrics. The development of different rubrics and the achievement of the outcomes need to be clearly stated in the SAR. The results of assessment of each PO for two to three assessment years shall be indicated as they play a vital role in implementing the continuous improvement process of the Program.

3.3.3 Criterion 3 - Students' Performance

The educational institution should monitor the academic performance of its students carefully. The institution shall provide the required information for three complete academic years about sanctioned intake and corresponding admission in the program, success rate in the stipulated period, placement and higher studies and professional activities as per the format given in the SAR.

3.3.4 Criterion 4 - Faculty Contributions

The faculty members should possess adequate knowledge / expertise to deliver all the curricular contents of the Program.

The number of faculty members must be adequate so as to enable them to engage in activities outside their teaching duties, especially for the purposes of professional development, curriculum development, student mentoring/counselling, administrative work, training, and placement of students, interaction with industrial and professional practitioners.

The number of faculty members must be sufficiently large in proportion to the number of students, so as to provide adequate levels of faculty-student interaction. In any educational Program, it is essential to have adequate levels of faculty-student interaction, which is possible only if there are enough faculty members.

The faculty must be actively involved in research and development. The Program must support, encourage and maintain such R&D activities, which, in turn, provide new knowledge to the curriculum. The student's education is enriched by being part of such a culture as it cultivates skills and habits for lifelong learning and knowledge on contemporary issues.

The program shall provide the required information for three complete academic years for Student-Faculty Ratio (SFR), Faculty competencies in the in the area of program specialization, Involvement of faculty in faculty development/training activities and STTPs, academic research, sponsored research and consultancy etc.

3.3.5 Criterion 5 - Laboratories and Research Facilities

The institution must provide adequate infrastructural and research facilities to support the achievement of the Program Outcomes. The laboratories must be equipped with computing resources, equipment, and tools relevant to the Program. The equipment of the laboratories should be properly maintained, upgraded and utilized so that the students can attain the Program Outcomes. There should be an adequate number of qualified technical supporting staff to provide appropriate guidance to the students for using the equipment, tools, computers, and laboratories. The institution must provide scope for the technical staff for upgrading their skills and professional advancement.

The institution shall provide the required information about adequacy and equipment in the laboratories in the area of program specialization, research facilities/centre for excellence and access to laboratory facilities, training in the use of equipment, as per the format given in the SAR.

3.3.6 Criterion 6- Continuous Improvement

Closing the loop at Program level and Institute level ensures quality assurance of the program. All POs attainment analysis is made to provide continuous improvement through course delivery, assessment and curriculum.

The institution shall provide required information regarding action taken based on the results of evaluation of each PO, Quality of projects, placement, higher studies, entrepreneurship and quality of students admitted to the program, quality of paper published and laboratories in relation to continuous improvement.

3.4 Accreditation Criteria Marks Distribution

Criteria No.	Criteria	Mark/Weightage
Program Level Criteria		
1.	Program Curriculum and Teaching - Learning Processes	125
2.	Program Outcomes	75
3.	Students' Performance	75
4.	Faculty Contributions	75
5.	Laboratories and Research Facilities	75
6.	Continuous Improvement	75
	Total	500

PART-IV

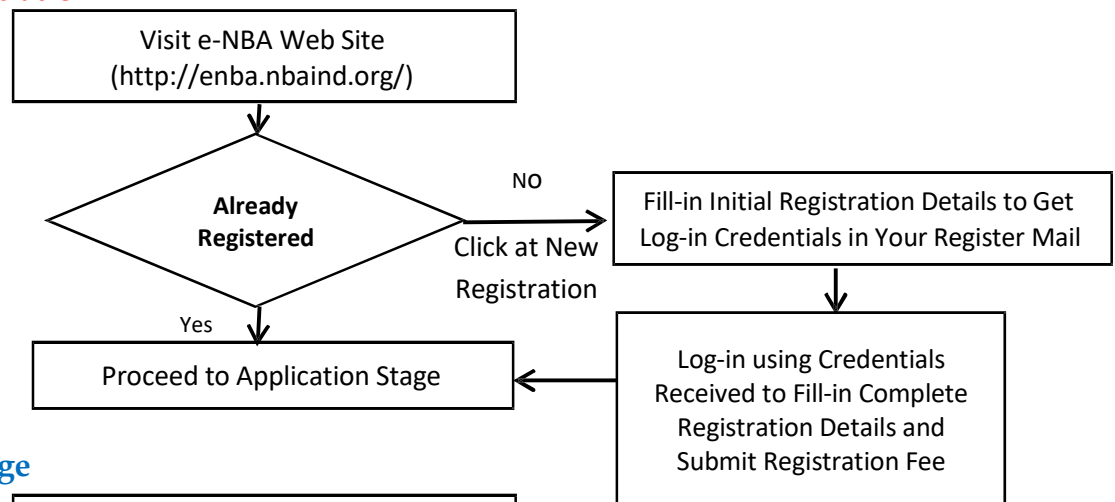
4.0 Accreditation Process

Accreditation workflow for Postgraduate Engineering Programs is summarized in Workflow diagram (Fig. 1a and Fig. 1b) and described below briefly.

4.1 Accreditation Stages

Eligible institutions may apply for accreditation of their programs online through the “Accreditation Workflow Management System” <https://enba.nbaind.org/> called e-NBA. The process of accreditation can be grouped into the following four sequential stages essentially in the same order. These stages are: i) Initial Stage; ii) Pre-Assessment Stage; iii) Assessment Stage; and iv) Post Assessment Stage (Decision-Making). Applicant institution must complete the previous stage, before proceeding to the next stage.

Initial Stage: Registration



Pre-assessment Stage

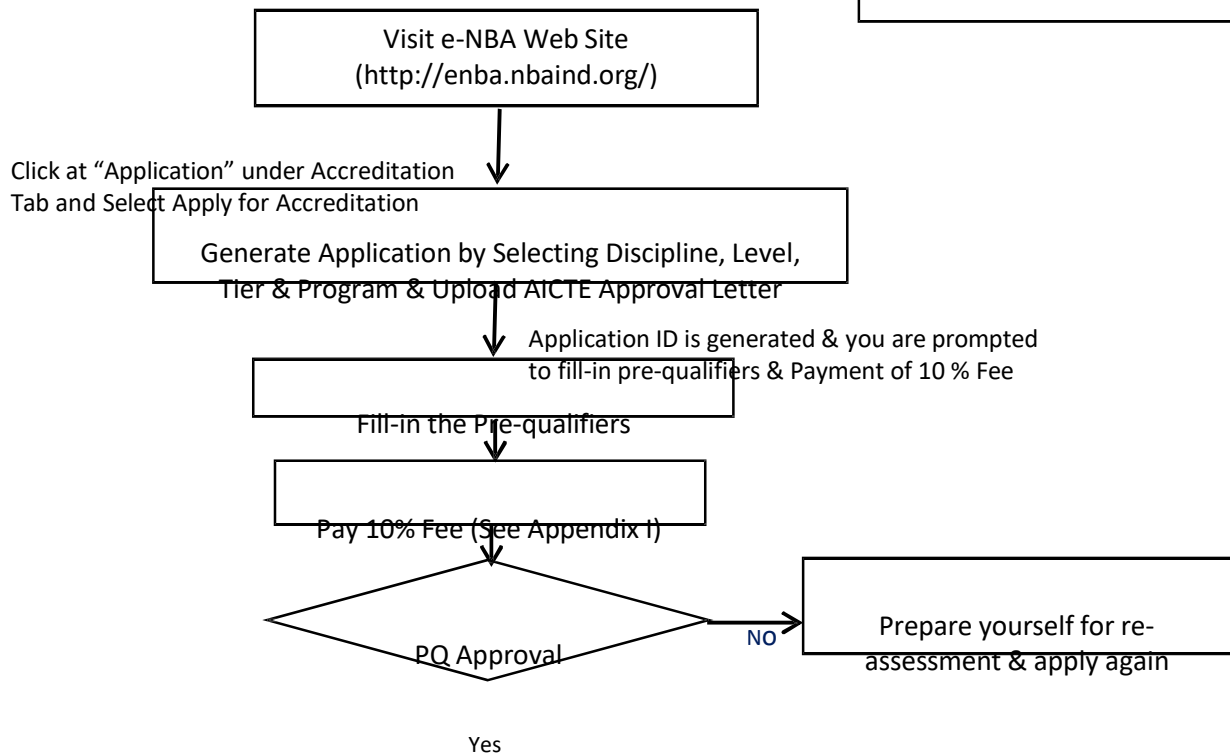
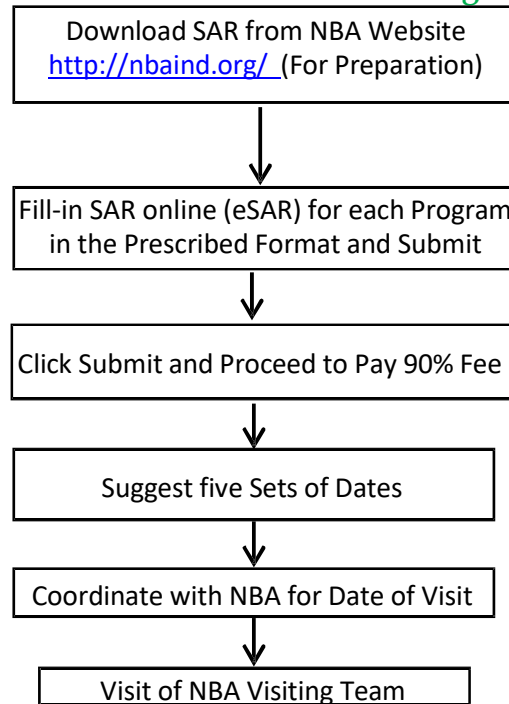
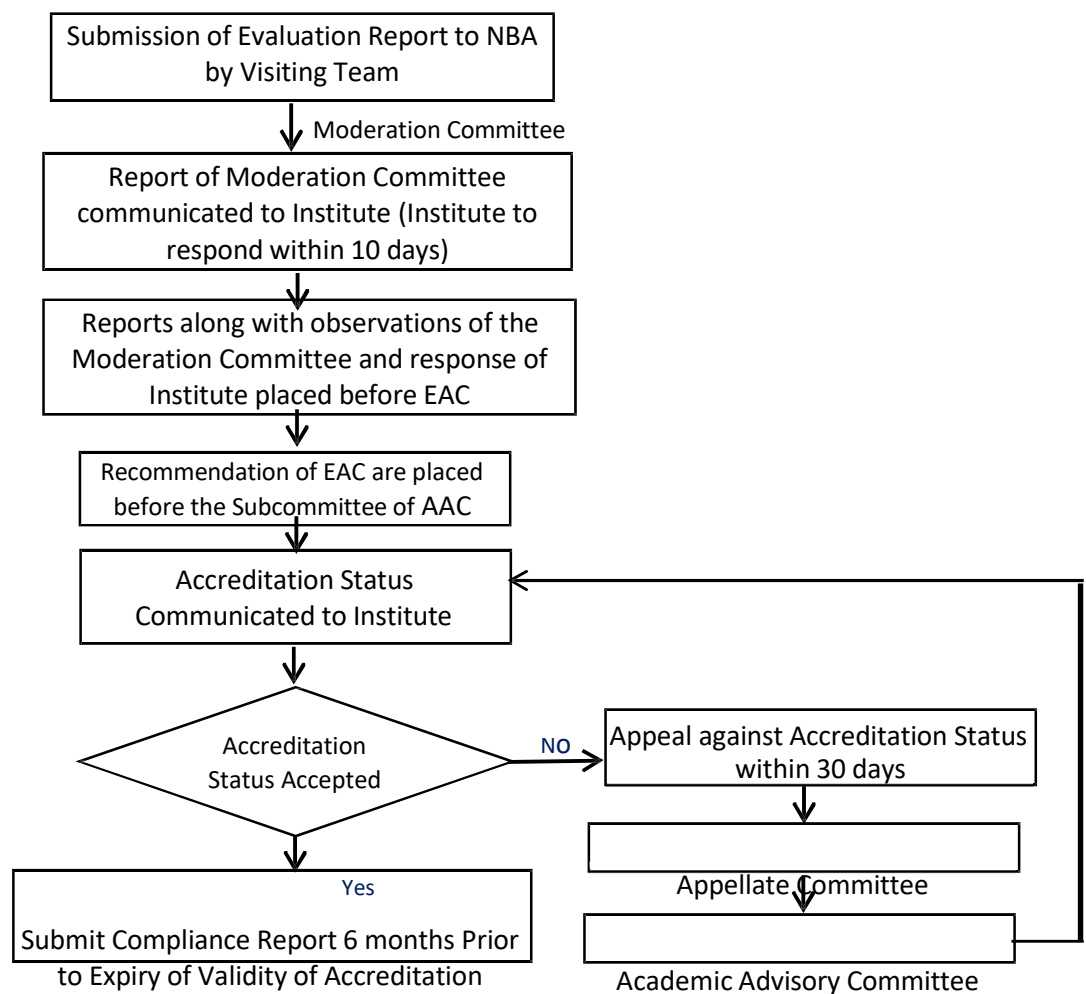


Fig. 1a: Accreditation Workflow: Registration and Pre-assessment Stage

Assessment Stage



Post-Assessment Stage



d Post-assessment Stage

Fig. 1b: Accreditation Workflow: Assessment and

4.1.1. Initial Stage: Registration

Institutions willing to seek accreditation of their programs by NBA are required to register with eNBA. Registration with eNBA is a one-time process. After filing the initial registration form, user gets user-id and password to fill the Complete Registration Form. Fig.2 is screen shot of initial registration and login interface for registered institutions.

The screenshot displays the login interface for the Accreditation Workflow Management System. At the top, the system name is written in blue and red, with the eNBA logo to the right. The main heading is 'LOGIN' in white on a dark blue background. Below this, there are two input fields: 'Username' and 'Password'. Under the password field, there are three buttons: 'Login' (dark blue), 'Reset' (dark blue), and 'Forgot Password?' (text link). Below these buttons is a link for 'New Registration?'. At the bottom of the page, a blue pill-shaped badge displays 'Total Visitors since 14.06.2018: 314312'.

Fig. 2: Registration of Institutions on e-NBA

Steps involved in the process of registration are as follows:

- ☞ The process of registration involves filling-in and submission of basic information of the registering institution in the data input boxes on e-NBA Registration Interface. On submission of basic information, the Institution receives temporary login credentials through their registered e-mail, which become permanent user ID after submission of one-time Registration fee (See *Annexure I: Fee Structure*).
- ☞ The institution is required to login using credentials received through their registered e-mail to complete the process of registration which includes keying-in of information in the data input boxes on e-NBA portal, such as the head of the institution, details of key promoters, bank details, details of the programs proposed for accreditation by the institution and uploading copies of all AICTE Approval Letters (academic year wise) or any other appropriate regulatory authority. The copies should be duly authenticated by the Head of the Institution on each page.

- ☞ The institution is required to pay one-time registration fee to complete the process of registration.
- ☞ The above-mentioned process should be completed within **15 working days** of the initiation of the registration failing which institutions will have to register again.
- ☞ Institutions already registered with e-NBA are not required to registration again.

4.1.2. Pre-Assessment Stage

4.1.2.1. Application for Accreditation

- ☞ Registered institution may apply online for accreditation of its programs by NBA. Login into eNBA portal using login credentials obtained during the Registration process mentioned above.
- ☞ Generate appropriate format for application by selecting Discipline, Level and Programs from pull-down menus as shown in Fig. 3.

Application Form For Accreditation

Programme(s) for Accreditation

Application Date * 10-07-2019

	Engg.&Tech./Pharmacy	Management	Computer Application
Discipline *	Select Discipline ▼	Select Discipline ▼	Select Discipline ▼
Level *	Select Level ▼	Select Level ▼	Select Level ▼
Tier *	-Select- ▼	None ▼	-Select- ▼
Programme *	Select Programme ▼	Select Programme ▼	Select Programme ▼
	Add To List	Add To List	Add To List

Note: Guidelines for Filling Application Form:

- 1) The Institutes can apply maximum for 5 programmes in a single application for various levels. However, MBA and MCA Programmes may be included alongwith Engineering Programmes
- 2) Upload all AICTE approval letters for last five years including current academic year.

Fig. 3: Generating Application(s) for Accreditation of Specific Program

- ☞ Upload all AICTE Approval Letter for the last five years including the Current Academic Year or any other appropriate regulatory authority duly authenticated by Head of the Institution.
- ☞ Institutions can apply for accreditation up to five programs through a single application on the e-NBA portal. Management and MCA programs can be clubbed with other programs in a single application. Applications for accreditation can be submitted any time when an institute is fairly confident that its programs comply with the relevant pre-qualifiers, and their system for outcome-based education and accreditation have been put in place and well imbibed by the faculty members of the program.

☞ Click at “**Submit**” button, for submission of temporary application to NBA for further processing. Application ID gets generated on successful submission of application.

4.1.2.2. Submission of Pre-Qualifiers

After the generation of the temporary application, the institution is required to fill the pre-qualifiers (See Annexure II) for program(s) to be accredited through eNBA portal. Login into eNBA portal and Click at “Pre-qualifier / e-SAR” under “Application” from the Left Navigation Panel. eNBA would display your Application No., Program and Level. Click at “Proceed to Pre-qualifiers”. e-NBA seeks information on pre-qualifiers under six sub-heads, namely i) Programme-specific Information; ii) Student Admissions; iii) Information on Faculty; iv) Student Faculty Ratio; and v) Compliance Status. Fill-in all the requisite information for the first sub-head and click at “Save and Next” to move to the next sub-head. Screenshot of program-specific information is given below as an example in Fig. 4.

Prequalifier

- Program Specific Info.
- PG Program
- Information of Faculty
- Student Faculty Ratio
- Placement Ratio
- Compliance Status

Program Specific Information for Automation Engg.

Note: Please provide details of all the programs offered by the department
 Note: Please click on Add more before clicking at Save and Next.

Name of Department:

Name of the Program: Program for Consideration: --Select-- Level: --Select--

Year of Start: Year of AICTE Approval: Initial Intake:

Increase / Decrease in Intake(Yes/No): --Select-- Current Intake: Accreditation Status: --Select--

Program Duration(In Years):

Add More

Name of program	Program Applied Level	Start of Year	Year of AICTE Approval	Initial Intake	Intake Increase	Current Intake	Accreditation Status	From	To	Program For Consideration	Duration	Delete

Save & Next

Fig.4: Screenshot of Pre-qualifier: Program-Specific Information

4.1.2.3. Submission of 10 % of Total Accreditation Fee

The institution is required to submit 10 per cent of the total applicable accreditation fee (as prompted by eNBA portal) (see Annexure I: Fee Structure) along with duly filled-in pre-qualifiers for further processing of the application. This first stage fee is non-refundable. If all the pre-qualifiers applied through an application are not approved, then the application is not processed further and the institution is informed accordingly.

All pre-assessment steps mentioned-above (4.1.2.1 to 4.1.2.3) should be completed within 30 days from the generation of the temporary application. If all these steps are not completed within 30 days, the application needs to be regenerated and PQs needs to be filled again.

4.1.3. Assessment Stage

4.1.3.1. Submission of Self-Assessment Report (SAR)

Submission of Self-Assessment Report (SAR) and Assessment by Visiting Team of NBA involves the following steps:

- ☞ Once the Pre-Qualifiers are approved, the institution is required to fill e-SAR for the programs whose pre-qualifiers are approved as prompted by eNBA portal.

To fill e-SAR (**See: Annexure- III SAR**), login into eNBA portal, click at “PQ/e-SAR” under “Application” and start filling the e-SAR online for each program. The information filled in Pre-Qualifier come prefilled (such as student information and faculty details) in the e-SAR and institutions are required to fill rest of the information. The e-SAR contains more detailed information about the programs and helps the institution to self-assess itself on each accreditation criteria. It is an opportunity for the institution to showcase its strengths, weaknesses etc. for evaluation and assessment criteria of NBA. However, e-SAR is expected to be factual and not narrative.

- ☞ Once all e-SAR of individual programs are submitted, click on the final submit button and pay the remaining 90% fees for all the programs whose e-SAR has been submitted (*See Annexure I - Fee Structure*). Institution can view the submitted e-SAR online and save it as PDF. The e-SAR submitted online is automatically forwarded to NBA for further necessary action.
- ☞ On submission of e-SAR, institution is invited to suggest dates for the visit and prepare itself for the visit as shown in Fig. 6. Submit five sets of dates for the visit. The institution is required to propose such sets of dates for the visit when the regular classes and all academic activities of the program applied for accreditation are on. NBA selects one set of dates and communicates the same to the institution. After receiving the concurrence of the institution, the dates of visit are fixed, and Visiting Team of NBA conducts the visit.

Application Detail

Application Number --Select--

Proposed Set of Visit Dates for Expert Visit to the Institution

	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5
From	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>
To	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>

Fig. 6: Propose Five Sets of Date for Visiting Team

4.1.3.2. Visiting Team to the Institution for Accreditation

- ☞ Once the Institution confirms the visit date, NBA constitutes the visit team. An accreditation visit to the institution is held for 3 days. However, visit for a single program is held for 2 days. This excludes the pre-visit meeting, which is held on day 0 at the place of stay. The Visiting Team consists of a Chairperson and two program evaluators for each program.
- ☞ While constituting a Visiting Team, NBA checks for the conflict of interest, i.e., expert must not be from the same state as of the institution and should not have any professional relation with the institution and/or program. Declaration and Feedback taken from the Chairman and Evaluators is enclosed as Part C of **Annexure VII and VIII** respectively.
- ☞ The Complete Evaluation Process including composition of visiting team, criteria for nomination, General Policies for Team Formation, etc. have been elaborated in Part III of General Manual available at <https://www.nbaind.org/files/general-manual-of-accreditation.pdf>
- ☞ The following Evaluation Documents that are helpful to the Visiting Team in preparing themselves for the visit as well as guiding them on processes and procedures to be followed are annexed in this manual:
 - ✓ Visit Schedule (*Annexure IV*)
 - ✓ List of Documents to be Verified during the Visit (*Annexure V*)
 - ✓ Evaluation Guidelines (*Annexure VI*)
 - ✓ Chairperson's Visit Report (Part A & C) (*Annexure VII*)
 - ✓ Evaluator's Visit Report (Part A, B and C) (*Annexure VIII*)
 - ✓ Certificate of Participation (to be filled-in by the Chairman of the Visiting Team) (*Annexure IX*)
 - ✓ Certificate and Feedback to be filled by Institution (*Annexure X & XI*)
 - ✓ Feedback from to be filled by the Visiting Team regarding the Service Provider (*Annexure XII*)

4.1.3.3. Accreditation Visit

The visit of the Evaluation Team is arranged to the institution seeking accreditation of its program(s) to evaluate and validate the assessment of the institution/department through the SAR of the program concerned as per specified accreditation criteria. Although it may not be possible to describe adequately all the factors to be assessed during the on-site visit, some of the common ones are the following:

- i) Outcomes of the education provided;
- ii) Quality assurance processes; including internal reviews;
- iii) Assessment;
- iv) Activities and work of the students;
- v) Entry standards and selection for admission of students;

- vi) Motivation and enthusiasm of faculty;
- vii) Qualifications and activities of faculty members;
- viii) Infrastructure facilities;
- ix) Laboratory facilities;
- x) Library facilities;
- xi) Industry participation;
- xii) Organization.

In order to assist the Evaluation Team in its assessment, the educational institution should arrange for the following:

i. Meeting with

- a. The Head of the Institution/Dean/Heads of Department (HoD)/Program and Course Coordinators
- b. Member(s) of the management (to discuss how the program fits into overall strategic direction and focus of the institution, and management support for continued funding and development of the program)
- c. Faculty members
- d. Alumni
- e. Employers
- f. Students
- g. Parents

ii. Availability of the following exhibits

- a. Profile of faculty involved in the program
- b. Evidence that the results of assessment of course outcomes and program outcomes are being applied to the review and ongoing improvement of program effectiveness.
- c. List of publications, consultancy and sponsored/funded research projects by the program faculty
- d. Sample materials for theory and laboratory courses
- e. Sample test/semester examination question papers for all courses
- f. Sample of test/semester examination answer scripts projects, assignments, (including at least one excellent, one good and one marginal pass for each examination) question papers and evidences related to assessment tools for COs and POs.
- g. Student records of three immediate batches of graduates
- h. Sample project and design reports (excellent, good and marginal pass) by students
- i. Sample student feedback form
- j. Sample for industry-institution interaction
- k. Results of quality assurance reviews
- l. Records of employment/higher studies of graduates

- m. Records of academic support and other learning activities
- n. Any other documents that the Evaluation Team/NBA may require

iii. Visit to

- a. Classrooms
- b. Laboratories pertaining to the program
- c. Central and department library
- d. Computer centre

The evaluation Team should conduct an exit meeting with the Management Representative, the Head of the Institution, the Head of Department and other key officials at the end of the on-site visit to present its findings (strengths, concerns, weaknesses and deficiencies). The institution is given a chance to withdraw one or more programs from the process of accreditation. In this case, the Head of the Institution shall have to submit the withdrawal in writing to the Chairperson of the Evaluation Team during the exit meeting. No request for withdrawal shall be accepted after the exit meeting.

4.1.3.4. 360 Degree Feedback

Appraisal 360° works by gathering the opinions of a number of people. A series of carefully structured questions prompt one to assess skills in a number of key areas. A number of other people are then asked to give their perception by answering a set of questions, which are then compiled into a feedback report. It is envisaged that such feedback will help in bringing transparency and objectivity in the evaluation process which will help in improving quality of the accreditation process, the cherished goal of all the stakeholders.

The 360° feedback is made available online to the institutions, chairperson and the evaluators by NBA. They have the flexibility to either fill the form online or download the form and submit the same by mail within 3 days.

- A. **Feedback form filled by the Head of the institution-** This format mainly focuses on the feedback on the entire evaluation team comprising the chairperson and evaluators regarding the accreditation and evaluation process and seeking comments about the general behavior of the evaluation team.
- B. **Feedback form filled by the chairperson-** This format mainly focuses on the feedback on the performance of the evaluators and also about the cooperation and coordination rendered by the institution at the time of accreditation visit.
- C. **Feedback form filled by the evaluators-** This format mainly focuses on the feedback on the chairperson, co-evaluators and also about the cooperation and coordination

rendered by the institution at the time of accreditation visit.

- D. **Feedback form filled by the chairperson / evaluators in respect of Service Provider-**
This format mainly focuses on the feedback on the performance of the service providers during the visit of accreditation.

4.1.4. Post-Assessment Stage

4.1.4.1. Processing of Evaluation Report

Processing of Evaluation Report submitted by the Visiting Team involves the following steps:

- ☞ Once the accreditation visit is completed, the experts prepare the evaluation report and submit it to the NBA.
- ☞ The report is first placed before the Moderation Committee. The Moderation Committee considers the Evaluation Report and find out the borderline cases. The observations of the Moderation Committee, for such cases are communicated to the institution for seeking necessary clarification within 10 days of submission of evaluation report. Response of the institution is sent to Chairperson of the Visiting Team.
- ☞ The Visits Team Report, observations of Moderation Committee and the response of the institution are considered by the EEAC (Engineering Evaluation and Accreditation Committee) in the presence of Chairperson of the Visiting Team.
- ☞ The recommendations of the EEAC are considered by the concerned Sub Committee of AAC of Engineering for taking a final decision on accreditation status. The final status of accreditation, as per the decision of Subcommittee of AAC, is communicated to the institution by NBA.

4.2 Award of Accreditation

- i) Accreditation of the Program for Six years;
- ii) Accreditation of the Program for Three years; and
- iii) No Accreditation of the Program

The accreditation is awarded based on the fulfilment of the following requirements:

4.2.1 Award of Accreditation for Six Years

- ☞ Program should score greater than or equal to 375 with 60 per cent in each criterion.

- ☞ Number of Ph.D. available in the department should be greater than or equal to 30 per cent of the required number of faculty, averaged over two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).
- ☞ Faculty student ratio in the department under consideration should be less than or equal to 1:20, averaged over three academic years i.e. Current Academic Year (CAY), Current Academic Year Minus One (CAYM1) and Current Academic Year Minus Two (CAYM2).
- ☞ At least two Professors or one professor and one associate professor on regular basis with a Ph.D. degree having expertise in the domain of the Program under consideration should be available for two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).

4.2.2 Award of Accreditation for Three Years

- ☞ Program should score greater than or equal to 300 with 50 per cent in Criterion-IV (Faculty Contribution).
- ☞ At least two Professors or one professor and one associate professor on regular basis with Ph.D. qualification with expertise in the domain of the Program under consideration should be available for two academic years i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).
- ☞ The department should have at least two faculty having Ph.D. qualification for two academic year i.e. Current Academic Year (CAY) and Current Academic Year Minus One (CAYM1).
- ☞ Faculty Student Ratio in the department under consideration should be less than or equal to 1:25, averaged over three academic year i.e. Current Academic Year (CAY), Current Academic Year Minus One (CAYM1) and Current Academic Year Minus Two (CAYM2)

4.2.3 No Accreditation of the Programs

- ☞ If the program fails to meet the criteria for award of accreditation for three years, it is awarded “Not Accredited” status.

4.3 Appeal

If the institution is not satisfied with the NBA’s decision on the Status of Accreditation, then the institution can make an appeal against the decision within 30 days of date of receipt of

communication from NBA along with the fee given in *Annexure I: Fee Structure*. The appeal is placed before the Appellate Committee and its recommendations are considered by the Academic Advisory Committee (AAC) for taking decision on appeal.

4.4 Accreditation Fee

Any institution which applied for accreditation is required to pay the fee at various stages as per the details given in *Annexure I: Fee Structure*.

4.5 Reconsideration of Programs

If a program is 'not accredited' or withdrawn during visit, a fresh application for accreditation of the same program can be considered after one year from the date of previous visit of the visiting team.

Note: - For all other general information, please refer to the General Manual for Accreditation or contact NBA.

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