

NATIONAL BOARD OF ACCREDITATION

GUIDELINES AND OPERATING PRACTICES FOR ACCREDITATION VISIT AND EVALUATION FOR MCA PROGRAMME (TIER-I)



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INTRODUCTION

The NBA constitutes an evaluation team comprising one Chairperson and one or two Evaluators for each programme to be considered for accreditation. The members of the evaluation team are expected to maintain transparency and confidentiality in the accreditation process. A person should not serve as a Chairperson or Evaluator of the evaluation team if he/she has a relationship leading to any clash of interest with the educational institution to such an extent that his/her judgment may be unduly influenced by their relationship.

The evaluators are expected to perform the following functions:

- study the SAR provided by the institution/university, and identify areas where additional information is required and issues that require an in-depth analysis during the visit, evaluate the SAR, collect and analyse all information that is detrimental to the quality of the programme.
- assist the Chairperson in conducting the visit.
- ensure that the report of the evaluation team is prepared and submitted to the eNBA at the end of the final day of the visit.

The Chairperson is expected to perform the following functions:

- finalise the schedule of visit.
- chair all meetings, coordinate the visit and provide guidance to the evaluation team.
- to address, on behalf of the evaluation team, issues common to all programmes being evaluated, including governance, institutional support and other infrastructural facilities.
- study the SAR provided by the institution/university and coordinate with evaluators to identify areas where additional information is required and issues that require an in-depth analysis during the visit.
- gather necessary information during the visit to support the findings and recommendations of the evaluation team.
- guide the evaluators to arrive at recommendations with consensus.
- chair the Exit meeting with the Head of the Institution/Departments. The findings of the evaluation team shall be informed to the Head of the Institution/Departments.
- ensure that the report of the evaluation team is submitted to the eNBA, at the end of the final day of the visit.
- prepare the Chairperson's Report of the evaluation team and submit it to the eNBA within a week from the last date of the visit.

In order to avoid possible conflict of interest, the Chairperson and the Evaluators are not expected to:

- (i) have personal or financial interest in the university/institution; or
- (ii) have or have had a close, active association with the programme or faculty/school/department in the university/institution that is being considered for accreditation.

Some of the close/active associations are:

- a) serving as faculty or consultant, either currently or within the past 3 years, for the university/institution whose programme is being considered for accreditation;
- b) being an alumnus or receipt of honorary degree from the university/institution whose programme is being considered for accreditation;
- c) holding membership of a board of the university/institution or any committee advising the programme which is being considered for accreditation.

The above list is illustrative, and not exhaustive.

ACCREDITATION VISIT

The Evaluation Team will visit the institution seeking accreditation of its programme(s) to evaluate and validate the assessment of the institute / department through the SAR of the programme concerned as per specified accreditation criteria. The evaluators may obtain such further clarification from the institution as they may deem necessary. Although it may not be possible to adequately describe all the factors to be assessed during the onsite visit, some of the common ones are the following:

- (i) Outcome 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;
- (ix) Industry participation;
- (x) Organisation.

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

(i) discussions with

- a) the Head of the institute/Dean/Heads of Department (HoD)/Programme and course coordinators
- b) a member of the management (to discuss how the programme fits into the overall strategic direction and focus of the institution, and management support for continued funding and development of the programme)
- c) faculty members
- d) alumni (sans Alma Maters)
- e) students
- f) parents

(ii) availability of the following exhibits

- a) profile of faculty involved in the programme
- b) evidence that the results of assessment of course outcomes and programme outcomes are being applied to the review and ongoing improvement of programme effectiveness
- c) list of publications, consultancy and sponsored/funded research projects by programme 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 evidence related to assessment tools for the COs and the 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- institute 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 document that the Evaluation Team/NBA may request

(iii) visits to

- a) classrooms
- b) laboratories pertaining to the programme
- c) central and department library
- d) computer centre
- e) hostel and dispensary

The Evaluation Team should conduct an exit meeting with the Management Representative, the Head of the institute, the Head of Department and other key officials at the end of the onsite visit to present its findings (strengths, weaknesses, and scope for improvement). The institution will be given a chance to withdraw one or more programmes from the process of accreditation. In this case, the Head of the institute will have to submit the withdrawal in writing to the Chairperson of the Evaluation Team during the exit meeting.

The entire process of an accreditation visit comprises four activities.

- A. Pre-visit activities
- B. Activities during the visit
- C. Report writing
- D. Seeking 360⁰ feedback

A. Pre-visit Activities

The standard operating practices to be followed by the accreditation team during the period prior to scheduled visit is given below:

- a. e-NBA shall provide a domain on the NBA's webportal to each evaluator and the chairperson. The evaluators/chairperson may transit business with the NBA using their ID and password. The evaluators/chairperson shall have access to all personal information on his/her page that may be amended by the evaluators from time to time as per their requirement. eNBA shall give access to the evaluators and the chairperson to all information pertaining to the visit they have conducted/participated.
- b. The date for the visit requested by the institutions, availability of the evaluators/chairperson for the visit, the discipline, programme details and other necessary parameters may be used by e-NBA as a filter to constitute the team for the visit. The NBA shall contact the chairperson and evaluators approximately 30-45 days before the scheduled date of accreditation visit to the university/institute asking for consent. On receipt of the notification through e-NBA, the evaluators/chairperson may reconfirm his/her availability.
- c. Once team members are finalised through e-NBA, i) The NBA shall inform the evaluators and chairperson approximately 30-45 days prior to the scheduled visit and send all details including the SAR. The chairperson and the evaluators will submit a declaration that there is no conflict of interest with the institution. They shall also submit an agreement of confidentiality. ii) e-NBA shall inform the Travel Coordinator for travel arrangements to the institution for confirmation of visit. All such details will be communicated to the evaluators and the chairperson prior to the visit.
- d. The evaluators shall study the SAR. If any additional documents/information is required for evaluating the SAR, the same may be obtained from the institution through the NBA.
- e. The evaluators should correlate syllabus/course contents, etc. vis-à-vis Graduate Attributes and Programme Specific Criteria prior to the date of the visit. The evaluators are expected to discuss the matter pertaining to the accreditation visit between them as well as with the chairperson.
- f. A pre-visit meeting shall be convened in the afternoon/evening of the day prior to the commencement of the visit with all the evaluators and chairperson to discuss preliminary findings from the SAR and issues or concerns they would like to concentrate on during the visit.
- g. The chairperson can also contact the NBA in case the SAR is incomplete or any information provided in the SAR is not available or ambiguous. This feedback is to be received by the chairperson from the evaluators during the pre-visit discussion.
- h. The evaluators shall draw up a plan for evaluation of the SAR and programme in consultation with the chairperson.

B. Activities during the visit

The standard operating practices to be followed by the accreditation team during the visit are given below. Table 1 presents the summary of activities during the visit.

1. The chairperson and the evaluators will reach the destination a day prior to the visit. They will hold a meeting among themselves to discuss the schedule and plan of activities during the visit.
2. The actual visit will commence in the morning of the following day.
3. On Day-1, the committee will go to the institution in the morning. The Head of the Institute will make a comprehensive presentation and the team members will be introduced to the management and the Head of the Departments of the institution.
4. The team will, then, inspect all central facilities during the pre-lunch session.
5. After a working lunch, the evaluators will go to the respective departments. The Head of Department should present a summary of various activities of the department to the evaluators.
6. The evaluators will visit the library, computing centre, laboratories and other facilities, such as seminar/conference halls, faculty rooms, class rooms, teaching aids, video conferencing, internet/intranet, etc. They are also expected to see that whether the above facilities have been adhered to as per the norms of the AICTE.
7. The evaluators will meet the faculty members, technical/supporting staff in order to verify the data supplied in the SAR by the programme. The evaluators should have the objective of gathering maximum information and evidence in support of their report.
8. The evaluators should go for silent observation of teaching practices in classrooms.
9. The evaluators will interact with students in the class in the absence of faculty members to assess the level of comprehensiveness of a course. The evaluators should frame questions for students in such a way that the information needed from them may be revealed. Questions may also be posed to students regarding teaching practices, quality of lecturers, their usefulness, tutoring, mentoring, academic support, etc.
10. The evaluators should identify students in small groups (not more than 5-6) for interaction to gather information about various aspects which are related to accreditation parameters.
11. At the end of Day-1, the evaluators will meet privately to discuss and clarify their observations.
12. On Day-2, the evaluators will visit the respective departments again in order to verify documents and the items of the SAR. All institution-specific and programme-specific given in the SAR will be checked and verified, besides other evidence satisfying criteria laid out in the SAR.
13. The evaluators will verify the mapping of the COs, POs, PEOs and Mission of the department and institute.

14. After lunch, the evaluators along with the chairperson shall meet the stakeholders - alumni, parents, entrepreneurs and employers as per the schedule. The evaluators may ask about the relevance of course and programme; suitability of course or programme to the job; professional work/profession in practice; suggestion for improvement; interaction, relation and cooperation between them and the institute.
15. The evaluators along with the chairperson shall interact with Head of the Department / Head of the Institution / Management representative with questions on academic administration, academic and financial resources, laboratory equipments and their maintenance. Evidence is to be collected and corroborated with the findings during interaction with teachers, students as well as their parents, employees and alumni.
16. At the end of Day-2, the evaluators will sit privately and complete the evaluation process and prepare the report. The findings and evidence collected must be used and refined by evaluators in their report.
17. On Day-3, an exit meeting will be conducted.
 - The chairperson of the evaluation team will chair the meeting.
 - The evaluation team should conduct an exit meeting with the Head of the Institution, Head of Department and other key officials of the institute. If two or more programmes are being evaluated concurrently at the institute, the exit meeting should be conducted separately by each evaluation team preferably. However, before the evaluation teams carry out their exit meetings, the chairperson may chair a private meeting with all evaluation teams to arrive at a consensus of their findings.
 - At the exit meeting, the findings of the evaluation team should be communicated orally to the Head of the Institute/Head of the Department and his key officials. The nature and scope of the exit meeting could include items such as:
 - Stating the outcome of the visit. As the final decision on the award of accreditation is made by the NBA, the evaluation team should only declare what they will be recommending to the NBA.
 - The exit meeting should not include discussion of the outcome of the accreditation
 - The institute will be given a chance either to continue with the accreditation process or to withdraw the application for any programme.
 - In case the institute opts to withdraw any programme, a request for the same must be given in writing immediately by the head of the institution to the chairperson of the committee and the same will be forwarded to the NBA.

TABLE 1 SUMMARY OF ACTIVITIES DURING THE VISIT

Day	ACTIVITIES	Duration
0	Meeting among team members	45 minutes
	Discuss the schedule and plan of activities	15 minutes
I	Meeting with Management Representative, Head of the Institution, Head of the Department	30 minutes
	Visit to central facilities	2 hours
	Lunch	
	Presentation by Head of the Department	30 minutes
	Visit to laboratories, library, computing centre and other facilities	1 hour
	Visit to classes	30 minutes
	Interaction with students	30 minutes
	Meeting among team members	30 minutes
II	Verification of programme documents/evidence	2 hours
	Interaction with faculty members	30 minutes
	Lunch	
	Interaction with Management Representative, Head of the Institute, Head of the Department	30 minutes
	Interaction with stakeholders: alumni, parents, employers	1 hour 30 minutes
	Preparation of the evaluator's report	30 minutes
III	Conduct exit meeting	1 hour
	Submission of the evaluator's online report to the NBA before departure	1 hour

18. The video recording of the visit shall be made. The evaluation team members are not expected to pass any remark leading to confrontation or debate etc. If there is no consensus between two evaluators, the views of each must be recorded with reasoning. Feedback 360⁰ form must be filled and mailed in confidence.
19. All members are required to maintain dignity and sanctity of the process as well as confidentiality.
20. Under no circumstance are the team members to be involved in lengthy meetings, arguments, providing suggestions, mentoring of faculty of the institute.

C. Report Writing

The standard operating practices to be followed by the accreditation team at the time of report writing are given below

1. The worksheet i.e., for awarding of point must be used for report writing. The report should not be in contradiction with point sheet/guidelines with points awarding. All point sheets/guidelines, with marks awarded, must be signed by the evaluators.
2. The report of the evaluators must not contradict the marks/points awarded, the strengths may be in an area where the score is more than 80%; the weaknesses may be in an area where the score is less than 70%. In case of a disagreement between two evaluators, the reasons for the disagreement must be recorded with reasoning and, if possible, with evidence.
3. The report of the chairperson should contain the gist of the conversation with the evaluators on phone and/or video conferencing; gist of discussion and strategy drawn on the evening prior to the commencement of visit; common strengths and weaknesses reported by the evaluators of various programmes; comments on the findings or disagreements. In case of a disagreement, the reasons must be recorded with reasoning and, if possible, with evidence.
4. The evaluation team of each programme will submit a consolidated evaluation report online, which is given in the NBA website along with electronic signatures of the evaluators of that programme and the chairperson. The online format of the consolidated evaluation report should have the following structure:
 - a. General information: Inputs which include name and address of the institution, description of programme(s) evaluated, dates of visit and names and affiliation of the evaluators and the chairperson.
 - b. Evaluation Report: This report contains points awarded by the evaluators to each item in all criteria along with the remarks.
 - c. Evaluation Summary Sheet: It contains the evaluator's report on the strengths, weaknesses and deficiencies, if any; additional remarks, if any, and summary of evaluation, along with specific remarks for those criteria in which points awarded are less than the qualifying points.
 - d. Chairperson's Report: It contains the chairperson's report on the strengths, weaknesses and deficiencies, if any.

D. Seeking 360⁰ feedback

This 360⁰ feedback will enable the NBA to improve its accreditation system and enhance its effectiveness. It will help in bringing transparency and objectivity in the evaluation process which in turn improves the quality of the accreditation process. The 360⁰ feedback shall be available online to the institution, and to the chairperson and the evaluators on the website of the NBA. They can have the flexibility to either fill the form online or download the form and submit the same by mail within 3 days.

Form A is to be filled by the Head of the institution. This format mainly focuses on the feedback of the evaluation team, comprising both chairperson and evaluators, regarding the accreditation and evaluation process seeking comments about the general behaviour of the evaluation team.

Form B is to be 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 the accreditation visit.

Form C is to be 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 the accreditation visit.

Form D is to be filled by the chairperson / evaluators. This format mainly focuses on the feedback on the performance of the service providers during the accreditation visit.

Form - A

Feedback Form to be filled by the Institution Regarding Accreditation Visit

Purpose

This form is designed to have a fair opinion of the team which has visited your institution. This will enable the NBA to improve its system and make it more effective. We thank you in advance for the time and effort you are investing in filling out this form.

1. Name of the Institution: _____
2. Programme(s) evaluated: _____
3. Date(s) of visit: _____
4. Name of Chairperson: _____
5. Names of Evaluators:
1. _____ 2. _____ 3. _____
4. _____ 5. _____ 6. _____
7. _____ 8. _____ 9. _____
10. _____ 11. _____ 12. _____

6. Please comment on the evaluation methodology adopted by the team during the visit.

7. Have the evaluators tendered any advice to improve the system? If yes, please specify.

- (i) Name of the Evaluator:
- (ii) Advice:

8. Were any of the evaluators specific about the relevant topics related to the programme? If no, please specify.

9. Did the evaluators interact with students and faculty in groups or with students and faculty in private? If yes, please specify the name of the students/faculty.

10. Was the head of the institute or any representative of the management also present during the interaction? If yes, please specify.

- (i) Name of the representative:
- (ii) Observation of the representative about interaction:

11. Have the evaluators been facilitated by the institute for outdoor activity? If yes, please specify.
- (i) On whose insistence:
 - (ii) What activity:
12. Has the exit meeting met the purpose i.e., to share the visiting team's perceptions and general observations about the institution and programmes?
13. Specify the participants of the exit meeting.
14. Please comment on the general behaviour of the visiting team (chairperson and evaluators) during the visit? Was hospitality extended to the visiting team? If yes, please specify the participants and the kind of hospitality offered.

Signature of the Head of Institution

Thank you for your feedback!

Form - B

Feedback Form to be filled by the Chairperson about the Institution and Team Members

Purpose

This form is designed to have a fair opinion about the team members who have assisted you during the visit. This will enable the NBA to improve its system and make it more effective. We thank you in advance for the time and effort you are investing in filling out this form.

1. Name of the Institution: _____
2. Programme(s) evaluated: _____
3. Date (s) of visit: _____
4. Name of Chairperson: _____
5. Name of Evaluators: 1. _____ 2. _____
4. _____ 5. _____ 6. _____
7. _____ 8. _____ 9. _____
10. _____ 11. _____ 12. _____

6. Please comment on the evaluation methodology adopted by the evaluators.
7. Has the evaluator tendered any advice to improve the system? If yes, please specify.
 - i) Name (s) of the evaluator: _____
 - ii) Advice: _____
8. Were the evaluators specific about the relevant topics related to the programme? If no, please specify.
9. Did the evaluator interact with students and faculty in groups or with students and faculty in private? If yes, please specify the name of the students/faculty.
10. Was the evaluator facilitated by the institution for outdoor activity? If yes, please specify.
 - i) On whose insistence: _____
 - ii) What activity: _____
11. Please comment on the general behaviour and etiquette of the evaluators during the visit.
12. Please comment on the general behaviour and etiquette of the Head of the Institution/other key officials.
13. Please comment on the cooperation and coordination rendered by the institution.

Signature of the Chairperson

Thank you for your feedback!

Form - C

Feedback Form to be filled by the Evaluator about the Institution, Co-evaluator and Chairperson

Purpose

This form is designed to have a fair opinion about the team members who have assisted you during the visit. This will enable the NBA to improve its system and make it more effective. We thank you in advance for the time and effort you are investing in filling out this form.

1. Name of the Institution : _____
2. Programme (s) evaluated : _____
3. Date (s) of visit : _____
4. Name of Chairperson : _____
5. Name of Evaluator : _____
6. Name of Co-Evaluator : _____

7. Please comment on the ability of the chairperson to resolve disputes, if any, between the evaluators.

8. Has the chairperson tendered any advice to improve the system? If yes, please specify.

9. Has the chairperson extended openness with the evaluators? If no, please specify.

10. Has the chairperson been facilitated by the institute for outdoor activity. If yes, please specify.

i) On whose insistence:

ii) What activity:

11. Please comment on the general behaviour and etiquette of the chairperson during the visit.

12. Please comment on the general behaviour and etiquette of the Head of the Institution / other key officials.

13. Please comment on the general behaviour and etiquette of the co-evaluator.

14. Please comment on the cooperation rendered by the co-evaluator.

15. Please comment on the cooperation and coordination rendered by the institution.

Signature of the Evaluator

Thank you for your feedback!

Form - D

Feedback Form to be filled by the Chairperson/Evaluator(s) about Service Provider

Purpose

This form is designed to have a fair opinion about the Service Provider hired by the NBA. This will enable the NBA to improve its system and make it more effective. We thank you in advance for the time and effort you are investing in filling out this form.

1. Name of the Institution:

2. Date (s) of visit:

3. Name of the Chairperson/Evaluator*:

4. Name of the Service Provider:

Assessment of the Service Provider

- I How was your overall experience with the service provider?

- II Please comment on customer service, travel management and consulting services.

- III Please comment on the travel and lodging requirements met during the visit.

- IV Please comment on your travel documentation.

- V Are you satisfied with the service provided by the Service Provider? If no, please specify.

*Please strike out whichever is not applicable

Signature of the Chairperson/Evaluator

Thank you for your feedback!

Evaluation Guidelines

Criterion 1 : Vision, Mission and Programme Educational Objectives (75)

Minimum qualifying points: 45

Item no.	Item description	Points	Evaluation guidelines/ award of marks
1.1	Vision and Mission	5	<ul style="list-style-type: none"> • Listing and articulation of the vision and mission statements of the institute and department (1) • Description of media (e.g. websites, curricula books) in which the vision and mission are published and how these are disseminated among stakeholders (2) • Articulation of the process involved in defining the vision and mission of the department from the vision and mission of the institute (2)
1.2	Programme Educational Objectives	10	<ul style="list-style-type: none"> • Listing and articulation of the programme educational objectives of the programme under accreditation (1) • Description of media (e.g. websites, curricula books) in which the PEOs are published and how these are disseminated among stakeholders (1) • List of stakeholders of the programme under consideration for accreditation and articulation of their relevance (1) • Description of the process that documents and demonstrates periodically that the PEOs are based on the needs of the programme's stakeholders (3) • Description as to how the Programme Educational Objectives are consistent with the Mission of the department (4)
1.3	Achievement of Programme Educational Objectives	25	<ul style="list-style-type: none"> • Description of the broad curricular components that contribute towards the achievement of the Programme Educational Objectives (15) • Description of the committees and their functions, working processes and related regulations (10)

1.4	Assessment of achievement of Programme Educational Objectives	30	<ul style="list-style-type: none"> Description of the achievement process that documents and demonstrates periodically the degree to which the Programme Educational Objectives have been achieved Information on: (a) listing and description of the assessment processes used to gather the data upon which the evaluation of each programme educational objective is based. Examples of data collection processes may include, but are not limited to, employer surveys, graduate surveys, focus groups, industrial advisory committee meetings, or other processes that are relevant and appropriate to the programme; (b) The frequency with which these assessment processes are carried out (5) Details of evidence that the PEOs have been achieved: (a) The expected level of achievement for each of the programme educational objectives; (b) Summaries of the results of the evaluation processes and an analysis illustrating the extent to which each of the programme educational objectives has been achieved; and (c) How the results are documented and maintained (25)
1.5	Indicate how the PEOs have been redefining in the past.	5	<ul style="list-style-type: none"> Articulation with rationale as to how the results of the evaluation of the PEOs have been used to review/redefine the PEOs (5)

Criterion 2 : Programme Outcomes (175)

Minimum qualifying points: 105

Item no.	Item description	Points	Evaluation guidelines
2.1	Definition and Validation of Course Outcomes and Programme Outcomes	20	<ul style="list-style-type: none"> • Listing of the course outcomes of the courses in programme curriculum and programme outcomes of the programme under accreditation (1) • Description of media (e.g. websites, curricula books) in which the POs are published and how these are disseminated among stakeholders (1) • Description of the process that documents and demonstrates periodically that the POs are defined in alignment with the graduate attributes prescribed by the NBA (3) • Details as to how the POs defined for the programme are aligned with the Graduate Attributes of the NBA as articulated in the accreditation manual (10) • Correlation of the defined POs of the programme with the PEOs (5)
2.2	Attainment of Programme Outcomes	30	<ul style="list-style-type: none"> • Correlation between the course outcomes and the programme outcomes. The strength of the correlation is to be indicated. (10) • Description of the different course delivery methods/modes (e.g. lecture interspersed with discussion, asynchronous mode of interaction, group discussion, project etc.) used to deliver the courses and justify the effectiveness of these methods for the attainment of the POs. This may be further justified using the indirect assessment methods such as course-end surveys. (5) • Description of different types of course assessment and evaluation methods (both direct and indirect) in practice and their relevance towards the attainment of the POs. (5) • Justification of the balance between theory and practical for the attainment of the PEOs and the POs. Justify how the various project works (a sample of 20% best and average projects from total projects) carried as part of the programme curriculum contribute towards the attainment of the POs. (10)

2.3	Evaluation of attainment of Programme Outcomes	100	<ul style="list-style-type: none"> • Description of the evaluation processes that documents and demonstrates periodically the degree to which the Programme Outcomes are being attained. Information on: (a) listing and description of the evaluation processes used to gather the data upon which the evaluation of each the programme outcome is based. Examples of data collection processes may include, but are not limited to, specific exam questions, student portfolios, internally developed evaluation exams, project presentations, nationally-normed exams, oral exams, focus groups, industrial advisory committee and (b) the frequency with which these evaluation processes are carried out (20) • Information on: (c)The expected level of attainment for each of the programme outcomes; (d) Summaries of the results of the evaluation processes and an analysis illustrating the extent to which each of the programme outcomes are attained; and (e) How the results are documented and maintained (80)
2.4	Use of evaluation results towards improvement of the programme	25	<ul style="list-style-type: none"> • Articulation with rationale the curricular improvements brought in after the review of the attainment of the POs (5) • Articulation with rationale the curricular delivery and evaluation of improvement brought in after the review of the attainment of the POs (10) • Articulation with rationale how the results of the evaluation of the POs have been used to review/redefine the POs in line with the Graduate Attributes of the NBA (10)

Criterion 3: Programme Curriculum (125)

Minimum qualifying points: 75

Item no.	Item description	Points	Evaluation guidelines
3.1	Curriculum	20	<ul style="list-style-type: none"> • Structure of the curriculum (5) • Drawing of the schematic of the prerequisites of the courses in the curriculum (5) • Evidence that programme curriculum satisfies the applicable program criteria specified by the appropriate American professional associations such as ASME, IEEE and ACM (10)
3.2	Curriculum components and relevance to the POs and the PEOs	15	<ul style="list-style-type: none"> • Detailing of programme curriculum grouping based on different components and their relevance to programme outcomes (15)
3.3	Professional Core courses and their relevance to Programme Outcomes	60	<ul style="list-style-type: none"> • Professional Core courses and their relevance to programme outcomes (10) • Description as to how professional core courses in the programme curriculum helps in solving complex problems (50)
3.4	Industry interaction/internship	10	<ul style="list-style-type: none"> • Details of industry's involvement in the programme such as industry-attached laboratories and partial delivery of courses and internship opportunities for students (10)
3.5	Curriculum Development	15	<ul style="list-style-type: none"> • Description of the process that periodically documents and demonstrates periodically how the programme curriculum is evolved considering the PEOs and the POs (5) • Details of the process involved in identifying the requirement for improvement in courses and curriculum and provide the evidence of continuous improvement of courses and curriculum (10)
3.6	Course Syllabi	5	<ul style="list-style-type: none"> • Syllabus for each course and also provide the details of the syllabi format (5)

Criterion 4 : Students' Performance in the Programme (100)

Minimum qualifying points: 60

Item no.	Item description	Points	Evaluation guidelines
4.1	Success rate	30	<p>Success rate = $30 \times \text{Mean of success index (SI) for past three batches}$</p> <p>SI = (No. of students who cleared the programme in the minimum period of course duration)/(No. of students admitted in the first year)</p>
4.2	Academic performance	30	<p>Assessment = $3 \times \text{API}$</p> <p>where, API = Academic performance index = Mean of CGPA of all the students on a 10-point CGPA system</p> <p>Or = (Mean of the percentage of marks of all students)/10</p>
4.3	Placement and higher studies	20	<p>Assessment = $20 \times (x + 1.25y)/N$</p> <p>where, x = No. of students placed, y = No. of students admitted for the higher studies, N = No. of students admitted in the first year subject to max. assessment points = 20</p> <p>Percentage of students to be considered based on first year.</p>
4.4	Professional activities	20	<ul style="list-style-type: none"> • Professional societies / chapters and organised events (3) • Organisation of paper contests, design contests, etc., and their achievements (3) • Publication of technical magazines, newsletters, etc. (3) • Entrepreneurship initiatives, product designs, innovations (3) • Publications and awards in inter-institute events.(8)

Criterion 5 : Faculty Contributions (175)

Minimum qualifying points: 105

Item no.	Item description	Points	Evaluation guidelines																					
5.1	Student-teacher ratio	20	<p>Assessment = $20 \times 20/STR$; subject to max. assessment at 20 where, $STR = (x + y + z)/M1$ x = No. of students in 1st year of the programme y = No. of students in 2nd year of the programme z = No. of students in 3rd year of the programme $M1$ = Total no. of faculty members in the programme (considering the fractional load)</p> <p>Marks to be given proportionally from a maximum of 20 to a minimum of 10 for average SFR between 15:1 to 25:1, and zero for average SFR higher than 25:1. Marks distribution is given as below:</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td style="text-align: right;">≤ 15</td><td style="text-align: center;">-</td><td style="text-align: left;">20 Marks</td></tr> <tr><td style="text-align: right;">≤ 17</td><td style="text-align: center;">-</td><td style="text-align: left;">18 Marks</td></tr> <tr><td style="text-align: right;">≤ 19</td><td style="text-align: center;">-</td><td style="text-align: left;">16 Marks</td></tr> <tr><td style="text-align: right;">≤ 21</td><td style="text-align: center;">-</td><td style="text-align: left;">14 Marks</td></tr> <tr><td style="text-align: right;">≤ 23</td><td style="text-align: center;">-</td><td style="text-align: left;">12 Marks</td></tr> <tr><td style="text-align: right;">≤ 25</td><td style="text-align: center;">-</td><td style="text-align: left;">10 Marks</td></tr> <tr><td style="text-align: right;">>25.0</td><td style="text-align: center;">-</td><td style="text-align: left;">0 Marks</td></tr> </table>	≤ 15	-	20 Marks	≤ 17	-	18 Marks	≤ 19	-	16 Marks	≤ 21	-	14 Marks	≤ 23	-	12 Marks	≤ 25	-	10 Marks	>25.0	-	0 Marks
≤ 15	-	20 Marks																						
≤ 17	-	18 Marks																						
≤ 19	-	16 Marks																						
≤ 21	-	14 Marks																						
≤ 23	-	12 Marks																						
≤ 25	-	10 Marks																						
>25.0	-	0 Marks																						
5.2	Faculty cadre ratio	20	<p>Assessment = $20 \times CRI$ Cadre ratio index (CRI) = $2.25 \times (2x + y)/N$; based on 1:2:6 subject to max. CRI = 1.0 x = No. of professors in the programme y = No. of associate professors in the programme</p>																					
5.3	Faculty qualifications	30	<p>Assessment = $3 \times FQI$ Faculty qualification index (FQI) = $(10x + 6y)/N2$, x = No. of faculty members with PhD y = No. of faculty members with MCA/ ME/MTech</p>																					
5.4	Faculty Competencies correlation to Programme Specific Criteria	15	<ul style="list-style-type: none"> • Ability of the programme curriculum to meet the applicable programme criteria specified by the appropriate American professional associations such as ASME, IEEE and ACM • Listing of the programme specific criteria and the competencies (specialisation, research publications, course developments etc. of faculty to correlate the programme specific criteria and competencies) 																					
5.5	Faculty as participants/resource persons in faculty development/training activities	15	<p>Participant/resource person in two week faculty development programme = 5 Participant/resource person in one week faculty development programme = 3 Assessment = $3 \times SUM / N$</p>																					
5.6	Faculty retention	15	<p>Assessment = $3 \times RPI/N$ Retention point index (RPI) = Sum of the retention points to all faculty members One retention point for each year of experience at the institution, subject to maximum five points to a faculty member.</p>																					

5.7	Faculty research publications	20	<p>Faculty points in research publications (FRP)</p> <p>Assessment of FRP = $4 \times (\text{Sum of the research publication points scored by each faculty member})/N$</p> <p>(Instruction: A faculty member scores maximum five research publication points each year, depending upon the <i>quality</i> of the research papers published in the past three years.)</p> <p>The research papers considered are those (i) which can be located on internet and/or are included in hard-copy volumes/proceedings, published by well-known publishers, and (ii) the faculty member's affiliation, in the published paper, is of the current institution.</p>
5.8	Faculty intellectual property rights	10	<p>Faculty points in IPR (FIPR)</p> <p>Assessment of FIPR = $2 \times (\text{Sum of the FIPR points scored by each faculty member})/N$</p> <p>(Instruction: A faculty member scores maximum five FIPR points each year. IPR includes awarded national/international patents, books, and copyrights.)</p>
5.9	Funded R&D Projects and consultancy (FRDC) work	20	<p>Faculty Points in R&D and consultancy work (FRDC)</p> <p>Assessment of R&D and consultancy projects = $4 \times (\text{Sum of FRDC by each faculty member})/N$</p> <p>Instruction: A faculty member gets maximum five points each year, depending upon the amount of the funds and/or the contributions made. A suggestive scheme is given below for a minimum amount of Rs. 1.0 (is this the correct figure?) lakh:</p> <p>Five points for funding by national agency Four points for funding by state agency/private sector Two points for funding by the sponsoring trust/society</p>
5.10	Faculty interaction with outside world	10	<p>Faculty interaction points (FIP) assessment</p> <p>= $2 \times (\text{Sum of FIP by each faculty member})/N$</p>

Criterion 6 : Facilities and Technical Support (75)

Minimum qualifying points: 4 5

Item no.	Item description	Points	Evaluation guidelines
6.1	Classrooms in the department	20	<ul style="list-style-type: none"> • Adequate number of rooms for lectures (core/electives), seminars, tutorials, etc., for the programme (10) • Teaching aids---multimedia projectors, etc. (5) • Acoustics, classroom size, conditions of chairs/benches, air circulation, lighting, exits, ambience, and such other amenities/facilities (5)
6.2	Faculty rooms in the department	15	<ul style="list-style-type: none"> • Availability of individual faculty rooms (5) • Room equipped with white/black board, computer, internet, and such other amenities/facilities (5) • Usage of room for counselling/discussion with students (5)
6.3	Laboratories in the department to meet the curricular requirements and the POs	25	<ul style="list-style-type: none"> • Adequate well-equipped laboratories to run all the programme-specific curriculum (15) • Availability of laboratories with technical support within and beyond working hours (5) • Equipment to run experiments and their maintenance, number of students per experimental setup, size of the laboratories, overall ambience, etc. (5)
6.4	Technical manpower support	15	<ul style="list-style-type: none"> • Availability of adequate and qualified technical supporting staff for programme- specific laboratories (10) • Incentives, skill-upgrade, and professional advancement (5)

Criterion 7: Academic Support Units and Teaching-Learning Process (100)

Minimum qualifying points:60

Item no.	Item description	Points	Evaluation guidelines
7.1	Academic Support Units	50	<ul style="list-style-type: none"> • Fullfillment of allotted seats (5) • Admission quality (10) • Adequacy of space, number of students per batch, software types and quality of instruments - Language laboratory (10) • Career Guidance, Training, Placement, and Entrepreneurship Cell (10) • Co-curricular and extra-curricular activities (10) • Sports grounds, facilities, and qualified sports instructors (5)
7.2	Teaching – Learning Process	50	<ul style="list-style-type: none"> • Tutorial classes to address student questions: size of tutorial classes, hours per subject in timetable (10) • Mentoring system to help at individual levels (10) • Feedback analysis and reward / corrective measures taken, if any (10) • Scope for self-learning (10) • Generation of self-learning facilities, and availability of materials for learning beyond syllabus (10)

Criterion 8 : Governance, Institutional Support and Financial Resources (75)

Minimum qualifying points: 45

Item no.	Item description	Points	Evaluation guidelines
8.1	Campus infrastructure and facility	10	<ul style="list-style-type: none"> • Maintenance of academic infrastructure and facilities (4) • Hostel (boys and girls), transportation facility and canteen (2) • Electricity, power backup, telecom facility, drinking water, and security (4)
8.2	Organisation, governance, and transparency	10	<ul style="list-style-type: none"> • Governing body, administrative setup, and functions of various bodies (2) • Defined rules, procedures, recruitment, and promotional policies, etc. (2) • Decentralisation in working and grievance redressal system (3) • Transparency and availability of correct/unambiguous information (3)
8.3	Budget allocation, utilisation, and public accounting	10	<ul style="list-style-type: none"> • Adequacy of budget allocation (4) • Utilisation of allocated funds (5) • Availability of detailed audited statements of all the receipts and expenditures publicly (1)
8.4	Programme Specific Budget Allocation, Utilisation	10	<ul style="list-style-type: none"> • Adequacy of budget allocation (5) • Utilisation of allocated funds (5)

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8.5	Library	20	<ul style="list-style-type: none"> • Library space and ambience, timings and usage, availability of a qualified librarian and other staff, library automation, online access, and networking (5) • Titles and volumes per title (4) • Scholarly journal subscriptions (3) • Digital library (3) • Library expenditure on books, magazines/journals, and miscellaneous contents (5)
8.6	Internet	05	<ul style="list-style-type: none"> • Sufficient and effective internet access facility with security and privacy (5)
8.7	Safety norms and Checks	05	<ul style="list-style-type: none"> • Checks for wiring and electrical installations for leakage and earthing (1) • Fire-fighting measurements: Effective safety arrangements with emergency/multiple exits and ventilation/exhausts in auditoriums and large classrooms/labs, fire-fighting equipments and training, availability of water and such other facilities (1) • Safety of civil structures/buildings/catwalks/hostels, etc. (1) • Handling of hazardous chemicals and such other hazards (2)
8.8	Counselling and emergency medical care and first-aid	05	<ul style="list-style-type: none"> • Availability of counselling facility • Arrangement for emergency medical care • Availability of first-aid unit

Criterion 9: Continuous Improvement (100)

Minimum qualifying points: 60

Item no.	Item description	Points	Evaluation guidelines
9.1	Improvement in success index of students	10	Points must be awarded in proportion to the average improvement in computed SI (in 4.1) over three years.
9.2	Improvement in academic performance index of students	10	Points must be awarded in proportion to the average improvement in computed API (in 4.2) over three years.
9.3	Improvement in STR	10	Points must be awarded in proportion to the average improvement in computed STR (in 5.1) over three years.
9.4	Enhancement of faculty qualification index	10	Points must be awarded in proportion to the average improvement in computed FQI (in 5.3) over three years.
9.5	Improvement in faculty research publication, R&D, and consultancy	10	Points must be awarded in proportion to the combined average improvement in computed FRP (in 5.7) and FRDC (5.9) over three years.
9.6	Continuing education	10	Points must be awarded in proportion to participation in continuing education (contributing to course modules and conducting and attending short-term courses and workshops) programmes to gain and/or disseminate their knowledge in their areas of expertise.
9.7	New facility created	15	New facilities in terms of infrastructure/equipment/facilities added to augment the programme.
9.8	Overall improvement since last accreditation, if any, otherwise, since establishment	25	Points must be awarded based on the strengths and weaknesses mentioned in the last accreditation visit, and how those were addressed and/or efforts were made.

Evaluation Report

Evaluation Report for NBA Accreditation of MCA Programme

(Note: This report must be in textual form supported by the findings listed for identified in evaluation guidelines)

Name of the programme:

Name and address of the institution:

Name of the affiliating university:

Dates of the accreditation visit:

Name, designation, and affiliation of programme evaluator 1:

Name, designation, and affiliation of programme evaluator 2:

Name, designation, and affiliation of team chairperson:

Signatures

(Programme Evaluator1)

(Programme Evaluator 2)

(Team Chairperson)

Criterion - 1: Vision, Mission and Programme Educational Objectives

Item no.	Item description	Max. points	Points awarded	Remarks
1.1	Mission and Vision	5		
1.2	Programme Educational Objectives	10		
1.3	Attainment of Programme Educational Objectives	25		
1.4	Assessment of attainment of Programme Educational Objectives	30		
1.5	Indicate how results of assessment of achievement of PEOs have been used for redefining PEOs	5		
	Total	75		

Findings:

Signature

Criterion - 2: Programme Outcomes

Item no.	Item description	Max. points	Points awarded	Remarks
2.1	Definition and Validation of Course Outcomes and Programme Outcomes	20		
2.2	Attainment of Programme Outcomes	30		
2.3	Assessment of attainment of Programme Outcomes	100		
2.4	Use of assessment results towards improvement of programme	25		
	Total	175		

Findings:

Signature

Criterion - 3: Programme Curriculum

Item no.	Item description	Max. points	Points awarded	Remarks
3.1	Curriculum	20		
3.2	Curriculum components and relevance to programme outcomes	15		
3.3	Professional core courses and their relevance to Programme Outcomes	60		
3.4	Industry interaction/internship	10		
3.5	Curriculum Development	15		
3.6	Course Syllabi	5		
	Total	125		

Findings:

Signature

Criterion - 4: Students' Performance in the Programme

Item no.	Item description	Max. points	Points awarded	Remarks
4.1	Success rate	30		
4.2	Academic performance	30		
4.3	Placement and higher studies	20		
4.4	Professional activities	20		
	Total	100		

Findings:

Signature

Criterion 5 : Faculty Contributions

Item no.	Item description	Max. points	Points awarded	Remarks
5.1	Student-teacher ratio	20		
5.2	Faculty cadre ratio	20		
5.3	Faculty qualifications	30		
5.4	Faculty competencies correlation to Programme Specific Criteria	15		
5.5	Faculty as participants/resource persons in faculty development/training activities	15		
5.6	Faculty retention	15		
5.7	Faculty research publications	20		
5.8	Faculty intellectual property rights	10		
5.9	Faculty R&D and consultancy work	20		
5.10	Faculty interaction with outside world	10		
	Total	175		

Findings:

Signature

Criterion 6 : Facilities and Technical Support

Item no.	Item description	Max. points	Points awarded	Remarks
6.1	Classrooms	20		
6.2	Faculty rooms	15		
6.3	Laboratories including computing facility	25		
6.4	Technical manpower support	15		
	Total	75		

Findings:

Signature

Criterion 7 : Academic Support Units and Teaching-Learning Processes

Item no.	Item description	Max. points	Points awarded	Remarks
7.1	Academic Support Units	50		
7.2	Teaching – Learning Process	50		
	Total	100		

Findings:

Signature

Criterion 8: Governance, Institutional Support and Financial Resources

Item no.	Item description	Max. points	Points awarded	Remarks
8.1	Campus Infrastructure and Facility	10		
8.2	Organisation, Governance, and Transparency	10		
8.3	Budget Allocation, Utilisation, and Public Accounting	10		
8.4	Programme Specific Budget Allocation, Utilisation	10		
8.5	Library	20		
8.6	Internet	5		
8.7	Safety Norms and Checks	5		
8.8	Counselling and Emergency Medical Care and First-aid	5		
	Total	75		

Findings:

Signature

Criterion 9: Continuous Improvement

Item no.	Item description	Max. points	Points awarded	Remarks
9.1	Improvement in Success Index of Students	10		
9.2	Improvement in Academic Performance Index of Students	10		
9.3	Improvement in Student-Teacher Ratio	10		
9.4	Enhancement of Faculty Qualification Index	10		
9.5	Improvement in Faculty Research Publications, R&D Work and Consultancy Work	10		
9.6	Continuing Education	10		
9.7	New Facility Created	15		
9.8	Overall Improvement since last accreditation, if any, otherwise, since the commencement of the programme	25		
	Total	100		

Findings:

Signature



GUIDELINES AND OPERATING PRACTICES
FOR ACCREDITATION VISIT AND EVALUATION

Experts' Report on the Strengths, Weaknesses, and Deficiencies, if any.

Strengths:

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Weaknesses:

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Deficiencies, if any:

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Additional remarks, if any:

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Summary of Evaluation

No.	Criterion	Max. points	Qualifying points	Points awarded	Qualified ?
1	Vision, Mission and Programme Educational Objectives	75	45		Yes/No
2	Programme Outcomes	175	105		Yes/No
3	Programme Curriculum	125	75		Yes/No
4	Students' performance	100	60		Yes/No
5	Faculty contributions	175	105		Yes/No
6	Facilities and technical support	75	45		Yes/No
7	Academic Support Units and Teaching-Learning Process	100	60		Yes/No
8	Governance, Institutional Support and Financial Resources	75	45		Yes/No
9	Continuous Improvement	100	60		Yes/No
	Total	1000	600		

Specific remarks for those criteria in which points awarded are less than the qualifying points:

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(Programme Evaluator1)

(Programme Evaluator 2)

(Team Chairperson)

Chairperson's Report

Name of the programme	
Name and address of the institution	
Dates of the accreditation visit	
Name, designation, and affiliation of programme evaluator 1	
Name, designation, and affiliation of programme evaluator 2	

(Requested to submit individual report for each programme)

Strengths:

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Weaknesses:

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Deficiencies, if any:

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Additional remarks, if any:

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(Team Chairperson)

List of documents/records to be made available during the visit (a tentative list)

(Instruction: Records of last three years to be made available, wherever applicable)

The following list is just a guideline. The institution may prepare its own list of documents in support of the SAR that it is submitting. The soft copy of these documents (in the form of statements and list only) may be appended with the SAR.

Institute Specific

- I.1. Land papers, built-plan, and approval, etc.
- I.2. Composition of governing, senate, and other academic and administrative bodies; their functions; and responsibilities. List of all the meetings held in the past three years along with the attendance records. Representative minutes and action taken reports of a few meetings of such bodies along with the list of current faculty members who are members of such bodies.
- I.3. Rules, policies, and procedures published by the institution including service book and academic regulations and others, along with the proof that the employees/students are aware of the rules and procedures.
- I.4. Budget allocation and utilisation, audited statement of accounts.
- I.5. Informative website.
- I.6. Library resources---books and journal holdings.
- I.7. Listing of core, computing, and manufacturing, etc., labs.
- I.8. Records of T&P and career and guidance cells.
- I.9. Records of safety checks and critical installations.
- I.10. Medical care records and usages of ambulance, etc.
- I.11. Academic calendar, schedule of tutorial, and makeup classes.
- I.12. Handouts/files along with outcomes, list of additional topics to meet the outcomes.
- I.13. Set of question papers, assignments, evaluation schemes, etc.
- I.14. Feedback form, analysis of feedback, and corrective actions.
- I.15. Documented feedback received from the stakeholders (e.g., industries, parents, alumni, financiers, etc.) of the institution.
- I.16. List of faculty who teach first year courses along with their qualifications.
- I.17. Results of the first year students.

Programme Specific

Each programme for which an institution seeks accreditation or reaccreditation must have in place the following:

- P1 NBA accreditation reports of the past visits, if any
- P2 Department budget and allocations (past three years data)
- P3 Admission---seats filled and ranks (last three years data)
- P4 List/number of students who have cleared the programme in four years (last three years data)
- P5 CGPA (last three years data of students' CGPA/ percentage)
- P6 Placement and higher studies (last three years data)
- P7 Professional society activities, events, conferences organised, etc.

- P8 List of students' papers along with hard copies of the publications; professional society publications/magazines, etc.

- P9 Sample best and average project reports/thesis

- P10 Details of student-faculty ratio

- P11 Faculty details with their service books, salary details, sample appointment letters, promotion and award letters/certificates

- P12 Faculty list with designation, qualification, joining date, publication, R&D, interaction details

- P13 List of faculty publications along with DOIs and publication/citation details

- P14 List of R&D and consultancy projects along with approvals and project completion reports

- P15 List and proof of faculty interaction with outside world

- P16 List of classrooms, faculty rooms

- P17 List of programme- specific laboratories and computing facility within department.

- P18 List of non-teaching staff with their appointment letters, etc.

- P19 List of short-term courses, workshops arranged, and course modules developed

- P20 Records of new programme- specific facility created, if any
- P21 Records of overall programme- specific improvements, if any
- P22 Curriculum, POs, PEOs, Mission, and Vision statements
- P23 Correlation of outcomes with the PEOs

- P24 Correlation of course outcomes with the POs

- P25 Course files, plan of course delivery, question papers, answer scripts, assignments, reports of assignments, project reports, report of design projects, list of laboratory experiments, reports of laboratory experiments, etc.
- P26 Rubrics developed to validate the POs
- P27. Continuous improvement in the PEOs
- P28. Improvement in curriculum for correlating the POs and the PEOs

- P29. Direct and indirect assessment methods to show attainment of the POs

- P30. Stakeholder's involvement in the process of improvement of the PEOs and the POs
- P31. Collected forms of various indirect assessment tools (e.g. alumni survey, employer survey)
- P32. Any other document which may be necessary to evaluate the SAR

SAMPLE QUESTIONS

Sample questions are provided in the accreditation guidelines and operating practices for the interaction with the head of head of the institution, head of the department, faculty and students with the main objective to have a better understanding of strengths and weaknesses of programmes and to have information on achievements of the POs and the PEOs in order to appreciate the ground reality. For interviewing the various members, faculty and above mentioned stakeholders some suggestive questions were framed by the NBA for each category. These questions are just illustrative, not exhaustive. The visiting team members are encouraged to frame their own questions with the basic objective of interviewing the stakeholders.

TO THE HEAD OF INSTITUTION

- How is equitable distribution of funds to departments ensured?
- How does research activity have linkages and benefits to undergraduate programme?
- Are research scholars and PG students used in tutorials and laboratory demonstration? Do they receive any training?
- What are faculty workloads like? How do you balance the work load between teaching and research?
- Is the level of industry input to programme design and targeted graduate outcomes adequate?

TO THE DEAN / HEAD OF DEPARTMENT / PROGRAMME COORDINATORS

- How are academic faculty involved in the programme design?
- What is the level of faculty development adapted to improve quality of teaching? How many are involved?
- How many members of the faculty are involved in the internship scheme?
- What happens if somebody is ill or wants to take a period of study leave?
- How many members of faculty are involved in the Foundations of Teaching and Learning programme?
- Describe your role and responsibilities.
- How many of you are involved in the academic leadership course for Course Coordinators?
- How is programme review initiated and implemented? When does industry interaction begin?
- To what degree does programme review involve academic faculty?
- How do you feel about the quality of laboratories and the level of student engagement?
- To what extent are laboratories and facilities useful for practical learning and project work? What might be the development directions and prioritisation?
- Is the quantum and quality of laboratory practice consistent with the needs of the programme?
- Are the laboratory equipment and computers properly maintained? Is the supporting staff adequate for these activities?
- Are you aware of the specified programme outcomes?
- What progress has been made on tracking the development, throughout the programme, of graduate attributes?
- What do you see as the positives associated with this programme?

- What are the characteristics that make this programme good or unique?
- What are your views of the capabilities of your students at the time they complete their studies?
- What are your views on the employability of your students?
- Where is professional development being delivered (writing, communication and research skills, teamwork, project management, etc)? Is it embedded throughout the programme?
- Is there sufficient student elective choice in the programme? Would more be better?
- How are the issues of ethics, sustainability and the environment covered throughout the programme?
- Are the students exposed to issues related to globalisation and changing technologies?
- What proportion of final year projects are industry based? How are they supervised and managed?
- What proportion of final year projects is research-oriented?
- Is the course material made available to students?
- Where do students perform their assignment work? Are separate working spaces for group work available?
- What are the modern tools used for teaching?
- Are students able to learn better from power point presentations?
- How much exposure is to local industry practice such as guest presentations, teaching by visiting faculty, site visits, industry problem solving, case studies, and industry projects occurring? Are these events prescribed as part of the overall educational design, or simply included on the initiative of the local programme/course coordinator?
- How is exposure to professional practice monitored and assessed?
- What kind of site visits are offered? Are site visits active for the students?
- What opportunities are being grasped in industrial design and project work to take advantage of industry topics or input? Are industry-based projects supervised or co-supervised by industry people?
- Does industry sponsor the project work?
- Do all students undertake an internship or industrial training?
- Describe the reporting mechanisms and assessment requirements.
- What are the overall quality mechanisms that ensure appropriateness of outcomes?
- How are academic faculty involved in achieving Graduate Attributes?
- What is the evidence of progress being made on mapping student learning outcome to the POs, including mapping of the outcomes to the Graduate Attributes?
- What efforts are made to ensure that assessment truly assesses the student learning outcomes in each subject?
- How are course outcomes and assessment measures at the unit level tracked to close the loop on delivery of targeted graduate outcomes?
- What are the roles of the Programme Coordinator, course coordinators and academic faculty in programme review and quality improvement?
- How often does the faculty meet as a teaching team to discuss programme improvement issues?
- To what extent is improvement made from student feedback?
- Are unit outlines demonstrating closure of the quality loop at unit and programme levels?
- State the level of industry input to programme design and targeted graduate outcomes.

- What is the impact of the advisory committee on contextualising the programme to local and global needs?
- What are the mechanisms available for formal/documentated student feedback?
- How is student feedback obtained?
- Do students receive feedback on actions taken?
- Are issues of graduate outcomes, curriculum design and improvement discussed?
- What are the other consultation mechanisms?
- How does the faculty respond to the outcomes of student/unit surveys?
- What changes have been made to the programme as a result of your evaluation?
- What is the process used for making changes to the programme outcomes?
- How does the faculty credentials relate to the PEOs and the POs?
- Is the quantum and quality of laboratory practice consistent with the needs of the graduate?
- How active is the industry-institute interaction partnership cell?
- What programme changes have been made from the input by industry-institute interaction partnership cell?
- What are the strengths and weaknesses of your department and support departments?
- Are any major curriculum changes planned? What? When?
- What are the major needs for growth and development of the curriculum?
- Do you make recommendations for faculty salary and increments?
- How much time is available to the faculty for professional development? What is the budget for faculty professional development?
- Is the faculty sent abroad under faculty exchange programme?

TO FACULTY

- How does research activity have linkages and benefits to undergraduate programme?
- Are research scholars and PG students used in tutorials and laboratory demonstration? Do they receive any training?
- How do you ensure that appropriate assessment techniques are being used?
- What kind of assessment of moderation processes are used? Is there any senior project work?
- What professional development (T&L-related) have you received?
- What are faculty workloads like? How do you balance your load between teaching and research?
- What are the good things that are happening in the programme?
- What are the unwanted things that are happening in the programme?
- What programme educational objectives and programme outcomes do the courses you teach support?
- Are you involved in the assessment/evaluation of programme educational objectives and programme outcomes? How?
- Are you involved in programme improvement? How?
- Is there sufficient student elective choice in the programmes? Would more choice be advisable?
- How is the Honours' program different from the graduate programme?
- How are the issues of ethics, sustainability and the environment, and business studies covered throughout the programme?
- Are the students exposed to issues related to globalisation and changing technologies?
- What proportion of final year projects are industry based? How are they supervised and managed?
- Are lectures recorded and made available to students?
- How do you ensure that appropriate assessment techniques are being used?
- How much time do you spend on professional development?
- What professional society are you a member of? Are you active? Do you hold any office?
- Does the same instructor usually teach both lecture and laboratory portions of related courses? If not, how do they coordinate?
- Is the salary structure satisfactory? What additional benefits are included?
- What unique or unusual teaching methods are used in your department?
- Do you maintain regular contacts with industry? How?
- How has the industrial-institute partnership cell affected the POs?
- Are the support departments providing appropriate educational services for your students?
- Is there adequate secretarial and technician service available to you?
- How do you balance your load between teaching and research?
- Have you acquired any additional qualification to provide effective teaching?
- How is your industrial experience, if any, relevant to this programme?
- What is your role in the continuous improvement of the programme?
- What are the roles of the Head of the Department, Course coordinators and staff members in programme review and quality improvement?
- How often does the staff meet as a teaching team to discuss programme improvement issues?
- What other consultation/grievance redressal mechanisms are available?

TO STUDENTS

- How has your educational experience measured up to your expectations?
- Comment on facilities such as laboratory, IT access, information resources and project work.
- Are you providing feedback as part of a quality/programme improvement mechanism?
- To what extent does the programme provide for your personal and professional capabilities development? Are there measures of your personal development and performance such as team-work, leadership, management, communication and presentation skills, self-learning capacity etc? Are these systematically addressed in subjects studied?
- Have issues such as globalisation, ethics and sustainable practices been addressed yet?
- What improvement would you make if you had a magic wand?
- Did you make use of online learning facilities? What are they? Do they make a difference?
- Do you feel that you have an understanding of the targeted outcomes for your programme and the real nature of professional practice in your chosen domain? How was this understanding established?
- How successful are the faculty members as role models of the professional engineer?
- How accessible is the faculty?
- Did you get exposure to sessions or guest lectures by practising professionals? Are these well-organised and well-presented?
- What do you think are the key attributes an employer would be looking for in a graduate engineer?
- How effective are subject/unit outline documents in communicating and interlinking objectives, learning outcomes, activities and assessment strategies within individual units?
- Is assessment well-coordinated with objectives and targeted learning outcomes within academic units?
- Are there other avenues of embedded professional practice exposure other than placement activities such as industry visits, field trips, industry assignments, case studies, industry based projects etc.? Is there sufficient exposure to professional practice?
- How effective is laboratory learning? Are experiments prescriptive or open-ended?
- What has been the nature of project-based learning activity in the programme? Have you been confronted with multi-disciplinary, open-ended, complex projects? Has it been necessary to consider factors such as social, environmental, safe practices and ethical matters?
- Have you been involved in any team-based learning activities yet? Have you become a good team player and/or team leader? Are you assessed for your team performance?
- What input do you have to the quality system, through surveys, input to the processes of educational design and continuous improvement? Is your feedback effective? Does it bring about change? Do you hear about improvement made?
- What skills are you expected to acquire at the time of graduation?
- Comment on attainment of programme educational objectives.

- To what extent does the programme provide for your personal and professional capabilities development? Are there measures of your personal development and performance such as team-work, leadership, management, communication and presentation skills, self-learning capacity etc? Are these systematically addressed in subjects studied?
- Are you acquiring the expected / required skills?
- Are the faculty members competent in the subjects they teach?
- Are faculty members available and helpful to you at times convenient to you?
- Why did you choose this institution/department / programme?
- Are the laboratory equipment/tools/accessories well-maintained?
- How good is the hands-on experience?
- Do you plan to continue your education after graduation? Where? When?
- Do you plan to accept a job after graduation? Where? When?
- What type of job can you get as a graduate of this programme? At what salary?
- What is your overall view of the programme?
- Would you recommend it to a friend?
- Are you providing feedback as part of a quality/programme improvement mechanism?