



**SELF ASSESSMENT REPORT (SAR) FORMAT
POSTGRADUATE ENGINEERING PROGRAMS**

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Pre-visit Qualifiers for becoming eligible for Accreditation

1. Tier – II Engineering: The relevant Under Graduate program should have scored minimum 700 marks out of 1000 marks.
2. Tier – I Engineering: The relevant Under Graduate program should have scored minimum five Compliances(Y).
3. The above conditions will not be applicable to the Post Graduate Program, that do not have corresponding Under Graduate Program.
4. The program should have minimum 40% GATE qualified students based on the sanctioned intake, excluding sponsored category of students; as an average of previous three years including the current academic year. If specialization not covered under GATE then those cases will be considered on case to case basis.
5. Program shall have at least two faculty with Ph. D qualification during the previous two year including the current academic year.
6. Program shall have at least one professor with Ph.D. qualification and one associate professor with Ph.D. qualification having expertise in the domain of the Post Graduate Program during the previous two academic years including the current academic year.
7. Department shall have 1:20 Faculty Student Ratio during the previous three years including the current academic year.

SAR Contents

Section	Item	Page No.
PART A	Institutional Information	
PART B	Departmental Information	
Criteria Summary		
1	Program Curriculum and Teaching – Learning Processes	
2	Program Outcomes	
3	Students’ Performance	
4	Faculty Contributions	
5	Laboratories and Research Facilities	
6	Continuous Improvement	
Annexure-I	Program Outcomes(POs)	
PART C	Declaration by the Institution	

PART A: Institutional Information

1. Name and Address of the Institution:

2. Name and Address of the Affiliating University, if applicable:

3. Year of establishment of the Institution:

4. Type of the Institution:

Institute of National Importance

University

Deemed University

Autonomous

Affiliated Institution

Any other (Please specify)

Note:

In case of Autonomous and Deemed University, mention the year of grant of status by the authority

5. Ownership Status:

Central Government

State Government

Government Aided

Self-financing

Trust

Society

Section 25 Company

Any Other (Please specify)

Provide Details:

6. Vision of the Institution:

7. Mission of the Institution:

8. Details of all the programs offered by the institution:

S. No.	Program Name	Name of the Department	Year of Start	Intake	Increase/Decrease in intake, if any	Year of Increase/Decrease	AICTE Approval	Accreditation Status*

Table: A.8.1

*** Write applicable one:**

- Applying first time
- Granted provisional accreditation for two/three years for the period (specify period)
- Granted accreditation for 5/6 years for the period (specify period)
- Not accredited (specify visit dates, year)
- Withdrawn (specify visit dates, year)
- Not eligible for accreditation
- Eligible but not applied

Note: 1. Add rows as needed. 2. Separate tables for UG and PG Programs to be prepared.

9. Programs to be considered for Accreditation vide this application

S. No.	Program Name	Current Year Sanctioned Intake	Current Year Admission (in Nos.)
1			
N.			

Table: A.9.1

10. Contact Information of the Head of the Institution and NBA coordinator, if designated:

- i. Name:
Designation:
Mobile No:
Email id:
- ii. NBA coordinator, if designated
Name:
Designation:
Mobile No:
Email id:

PART B: Departmental Information

1. State the Vision and Mission of the Department

2. Justification of consistency of the Department Vision and Mission with the Institute Vision and Mission

3. Details of all UG & PG Programs offered by the department

S. No.	PG Program Name	Corresponding UG Program/Department Name	Current Year Sanctioned Intake	Current year Admission (in Nos.)
1	For ex. Structural Engineering	Civil Engineering		
2	VLSI	Electronics		
N.				

Table: B.3.1

4. State the Program Educational Objectives (PEOs) for the PG program(s) under consideration for accreditation.

Criteria Summary

Name of the program _____

Criteria No.	Criteria	Mark/Weightage
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

CRITERION 1	Program Curriculum and Teaching –Learning Processes	125
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1.1. Program Curriculum (35)

1.1.1. State the process for designing the program curriculum (10)

(Describe the process that periodically documents and demonstrates how the program curriculum is evolved or give the process of gap analysis, whichever is applicable, considering POs)

1.1.2. Structure of the Curriculum (5)

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical# (P)	Total Hours	
Total						

Table: 1.1.2

Seminars, project works may be considered as practical

1.1.3. State the components of the curriculum (10)

Program curriculum grouping based on course components

Course Component	Curriculum Content (% of total number of credits of the program)	Total number of contact hours	Total number of credits
Program Core			
Program Electives			
Open Electives			
Mini Projects			
Internships/Seminars			
Major Project			
Any other (Specify)			
Total number of Credits			

Table: 1.1.3

1.1.4. Overall quality and level of program curriculum (10)

In case of affiliated institutions following criteria will be applicable for Program Curriculum:

1.1.1. State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes (10)

1.1.2. Appropriateness of the gaps identified (5)

1.1.3. Actions taken to bridge the gap (10)

1.1.4. Overall quality and level of program curriculum (10)

Note: In case program is able to demonstrate the compliance of university curriculum in attaining the program outcomes, then the marks distribution will be as indicated for non-affiliated institutions.

1.2. Teaching-Learning Processes (90)

1.2.1. Quality of end semester examination, internal semester question papers, assignments and evaluation (20)

1.2.2. Quality of student projects (30)

Quality of the project is measured in terms of

- *Very clear and concise objectives*
- *Very clear methodology, articulated using technical terms indicating all steps and tools*
- *Cites substantial current and good quality literature*
- *Clarity in design/setting up of experiment.*
- *Benchmarks used / Assumptions made*
- *Interpretation of results and justification thereof and validity of the results presented.*
- *Overall presentation of the report*

1.2.3. Initiatives related to industry interaction including industry internship/summer training (10)

1.2.4. Participation of Industry professionals in curriculum development, as examiners, in major projects (10)

1.2.5. Quality of laboratory work given (20)

CRITERION 2	Program Outcomes	75
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2.1. Establish the connect between the courses and POs (15)

POs as defined in Annexure-I

POs	Courses*
PO1	
PO2	
PO3	
POn	

Table: 2.1.1

***Mention the courses relevant to the PO**

2.2. Attainment of Program Outcomes (60)

2.2.1. Describe the assessment tools and processes used to gather the data upon which the evaluation of Program Outcome is based (20)

2.2.2. POs attainment levels with observations (40)

POs Attainment

Course	PO1	PO2	PO3
C101					
C102					
...					
C201					
Attainment levels					

Table: 2.2.2

Observations on attainment levels for each of the POs.

CRITERION 3	Students' Performance	75
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Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY	CAYm1	CAYm2 (LYG)	CAYm3 (LYGm1)	CAYm4 (LYGm2)
Sanctioned intake of the program (<i>N</i>)					
Total number of students admitted through GATE (<i>N1</i>)					
Total number of students admitted through PG Entrance and others (<i>N2</i>)					
Total number of students admitted in the Program (<i>N1 + N2</i>)					

Table: 3.1

CAY – Current Academic Year

CAYm1- Current Academic Year minus1= Current Assessment Year

CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1

LYG – Last Year Graduate

LYGm1 – Last Year Graduate minus 1

LYGm2 – Last Year Graduate minus 2

Year of entry	<i>N1 + N2</i> (As defined above)	Number of students who have successfully graduated	
		I Year	II Year
CAY			
CAYm1			
CAYm2 (LYG)			
CAYm3 (LYGm1)			
CAYm4 (LYGm2)			

Table: 3.2

3.1. Enrolment Ratio through GATE (20)

Enrolment Ratio= $N1 / N$; *N* is sanctioned intake; *N1* is number of students admitted through GATE.

Item	Marks
(Students enrolled at the First Year Level on average basis during the last three years starting from Current Academic Year)	
>=80% students enrolled through GATE	20

>=60% students enrolled through GATE	16
>=50% students enrolled through GATE	12
>=40% students enrolled through GATE	8
<40% students enrolled through GATE	0

Table: 3.1.1

3.2. Success Rate in the stipulated period of the program (20)

S.I. = Number of students completing program in stipulated duration/ Number of students admitted in first year of same batch;

Average S.I.= Mean of SI for past 3 Batches

Assessment points = 20 X Average S.I.

3.3. Placement, Higher Studies and Entrepreneurship (20)

Assessment Points = 20 × average placement; N is the total no. of students admitted in first year

Item	CAYm1	CAYm2	CAYm3
No. of students placed in companies or Government Sector (x)			
No. of students pursuing Ph.D. / JRF/ SRF(y)			
No. of students turned entrepreneur in engineering/technology (z)			
$x + y + z =$			
Placement Index : $(x + y + z)/N$	P1	P2	P3
Average placement= $(P1 + P2 + P3)/3$			
Assessment Points = 20 × average placement			

Table: 3.3.1

3.4. Professional Activities (15)

3.4.1. Student's participation in Professional societies/chapters and organizing engineering events (5)

(Provide relevant details)

3.4.2. Student's publications (10)

(List the publications along with the names of the authors and publishers, etc.)

CRITERION 4	Faculty Contributions	75
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Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date of Joining the Institution	Department	Specialization	Academic Research			Sponsored Research (Funded Research)	Consultancy and Product Development
	Degree (highest degree)	University	Year of Graduation						Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment Years		

Note: Please provide details for the faculty of the department, cumulative information for all the shifts for all academic years starting from current year in above format in Annexure - II.

4.1. Student-Faculty Ratio (SFR) (10)

(To be calculated at Department Level)

No. of UG Programs in the Department (n): _____

No. of PG Programs in the Department (m): _____

No. of Students in UG 2nd Year= **u1**

No. of Students in UG 3rd Year= **u2**

No. of Students in UG 4th Year= **u3**

No. of Students in PG 1st Year= **p1**

No. of Students in PG 2nd Year= **p2**

No. of Students = Sanctioned Intake + Actual admitted lateral entry students

(The above data to be provided considering all the UG and PG programs of the department)

S=Number of Students in the Department = UG1 + UG2 +.. +UGn + PG1 + ...PGm

F = Total Number of Regular Faculty Members in the Department (excluding first year faculty)

Student Teacher Ratio (STR) = S/F

Year	CAY	CAYm1	CAYm2
u1.1			
u1.2			
u1.3			
UG1	u1.1+u1.2+u1.3	u1.1+u1.2+u1.3	u1.1+u1.2+u1.3
...			
u _n .1			
u _n .2			
u _n .3			
UG _n	u_n.1+u_n.2+u_n.3	u_n.1+u_n.2+u_n.3	u_n.1+u_n.2+u_n.3
p1.1			
p1.2			
PG1	p1.1+p1.2	p1.1+p1.2	p1.1+p1.2
.....			
pm.1			
pm.2			
PG _m	pm.1+pm.2	pm.1+pm.2	pm.1+pm.2
Total No. of Students in the Department (S)	UG1 + UG2 +... +UG_n + PG1 + ...PG_m	UG1 + UG2 + .. +UG_n + PG1+... + PG_m	UG1 + UG2 + .. +UG_n + PG1+... + PG_m
No. of Faculty in the Department (F)	F1	F2	F3
Student Faculty Ratio (SFR)	SFR1=S1/F1	SFR2= S2/F2	SFR3= S3/F3
Average SFR	SFR=(SFR1+SFR2+SFR3)/3		

Table 4.1.1

Marks to be given proportionally from a maximum of 10 to a minimum of 5 for average SFR between 15:1 to 20:1, and zero for average SFR higher than 20:1.

Note: Minimum 75% should be Regular/Full Time faculty and the remaining shall be Contractual Faculty/Adjunct Faculty/Resource Person from industry as per AICTE norms and standards.

The contractual Faculty will be considered for assessment only if a faculty is drawing a salary as prescribed by the concerned State Government for the contractual faculty in the respective cadre and who have taught over consecutive 4 semesters.

4.2. Faculty competencies in the area of Program specialization (30)

(Relevant faculty information, in the area of Program specialization)

4.2.1. Faculty name and specialization for the program under consideration (10)

Name of the faculty	Relevant Area of Specialization	
	CAY	CAYm1

Table 4.2.1.1

4.2.2. Faculty Research Publication (10)

Name of the faculty	Academic Research					
	Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc.			Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute		
	CAYm1	CAYm2	CAYm3	CAYm1	CAYm2	CAYm3

Table 4.2.2.1

4.2.3. Faculty Development work (10)

4.3. Faculty as participants in Faculty development/training activities/STTPs (5)

(Mention details such as program title, description, duration, resource person, type of training, training methodology, participants, etc.). Mention details separately for the programs organized and the programs participated outside the institution)

4.4. Research and Development (30)

4.4.1. Sponsored Research (15)

Funded research from outside; considering faculty members contributing to the program:
(Provide a list with Project Title, Funding Agency, Amount and Duration)

Funding Amount (Cumulative for last three years starting from CAYm1, CAYm2 and CAYm3):

Amount >50 Lacs 15 Marks,

Amount >40 and <50 Lacs 10 Marks,

Amount >30 and <40 Lacs 5 Marks,
 Amount >15 and <30 Lacs 2 Marks,
 Amount <15 Lacs 0 Mark

4.4.2. Consultancy (from Industry) (15)

Considering faculty members contributing to the program:

(Provide a list with Project Title, Funding Agency, Amount and Duration)

Funding Amount (Cumulative for ~~last three years starting from~~ CAYm1, CAYm2 and CAYm3):

Amount >10 Lacs 15 Marks,
 Amount <10 and >8 Lacs 10 Marks,
 Amount <8 and > 6 Lacs 8 Marks,
 Amount <6 and >4 Lacs 5 Marks,
 Amount <4 and >2 Lacs 2 Marks,
 Amount <2 Lacs 0 Marks

CRITERION 5	Laboratories and Research Facilities	75
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5.1. Adequate and well equipped laboratories in area of Program specialization (30)

Sr. No.	Name of the Laboratory	Specialized Equipment Name	Equipment details	Utilization details from the perspective of PO attainment
1.				
N.				

Table 5.1.1

5.2. Research facilities / center of excellence (30)

Sr. No.	Name of the Facility	Specialized Equipment Name	Equipment details	Utilization details from the perspective of PO attainment
1.				
N.				

Table 5.2.1

5.3. Access to laboratory facilities, training in the use of equipment (15)

CRITERION 6	Continuous Improvement	75
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6.1. Actions taken based on the results of evaluation of each of the POs (25)

Identify the areas of weaknesses in the program based on the analysis of evaluation of POs attainment levels. Measures identified and implemented to improve POs attainment levels for the assessment years including curriculum intervention, pedagogical initiatives, support system improvements, etc.

Actions taken, to be mentioned here.

6.2. Improvement in Quality of Projects (10)

6.3. Improvement in Placement, Higher Studies and Entrepreneurship (10)

Assessment is based on improvement in:

- *Placement: number, quality placement, core industry, pay packages etc.*
- *Higher studies: admissions for pursuing Ph. D in premier institutions*
- *Entrepreneurs*

6.4. Improvement in the quality of students admitted to the program (10)

Assessment is based on improvement in terms of ranks/score in GATE examination

Gate Score	CAY	CAYm1	CAYm2
Highest Score			
Minimum Score			

Table 6.4.1

6.5. Improvement in quality of paper publication (10)

6.6. Improvement in laboratories (10)

Annexure-I

Program Outcomes

- PO1:** An ability to independently carry out research /investigation and development work to solve practical problems
- PO2:** An ability to write and present a substantial technical report/document
- 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

Note: Program may add up to three additional POs.

Declaration

The head of the institution needs to make a declaration as per the format given below:

I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institute shall fully abide by them.

It is submitted that information provided in this Self-Assessment Report is factually correct. I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA in case any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Date:

Signature & Name

Place:

Head of the Institution with seal