ED 19803069711N

राष्ट्रीय प्रत्यायन बोर्ड

चौथा तल, ईस्ट टावर, एन. बी. सी. सी. प्लेस, भीष्म पितामह मार्ग, प्रगति विहार, लोधी रोड़, नई दिल्ली -110003

NATIONAL BOARD OF ACCREDITATION

4th Floor, East Tower, NBCC Place, Bhisham Pitamah Marg, Pragati Vihar, Lodhi Road, New Delhi 110003

NATIONAL BOARD OF ACCREDITATION

File No. 26-11-2010-NBA **Date: 02.06.2023**

To,
The Principal
Government Engineering College,
Thrissur, Kerala – 680009

Subject: Accreditation status of programs applied by Government Engineering College, Thrissur, Kerala – 680009, Karnataka.

Sir,

This has reference to your application I.D. No. 5265-18/01/2021 seeking accreditation by National Board of Accreditation to the PG Engineering programs applied by Government Engineering College, Thrissur, Kerala – 680009.

2. An Expert Team conducted onsite evaluation of the programs from **17th to 19th March, 2023**. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The Competent Authority in NBA has approved the following accreditation status to the programs as given in the table below:

Sl. No.	Name of the Program(s) (PG)	Basis of Evaluation	Accreditation Status	Period of validity	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1.	Environmental Engineering	May 2017 Document	Accredited	Academic Years 2023-2024 to 2025-2026 i.e. upto 30-06-2026	Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the Competent Authority, whichever is earlier
2.	Power Systems		Accredited		
3.	Process Control		Accredited		

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The accreditation status awarded to the programs as indicated in the above table does not imply that the accreditation has been granted to **Government Engineering College, Thrissur, Kerala – 680009** as a whole. **As such the Institution should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is program accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed** seriously. Complete name of the program(s) accredited, level of program(s) and the period of validity of accreditation, as well as the Academic Year from which the accreditation is effective should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

19/5

Contd./_

GOVERNMENT ENGINEERING COLLEGE THRISSUR	
Inward No:	Date: 19/07/2023
PRINCIPAL	SECTION C5
AA	AO
SS I	SS II
JS I	JS II

5. The accreditation status of the above programs is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited programs as indicated in the table in paragraph 2, appears on the website and information bulletin of the Institute.

6. The accreditation status awarded to the programs as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

7. A copy each of the Report of Chairman of the Visiting Team and Evaluators' Reports in respect of the above programs is enclosed.

8. If the Institute is not satisfied with the decision of NBA, it may appeal within thirty days of receipt of this communication giving reasons for the same and by paying the requisite fee.

Yours faithfully,

(Dr. Anil Kumar Nassa)
Member Secretary

Encls.: 1. Copy of Report of Chairman of the Visiting Team.
2. Copy each of Expert Reports of the Visiting Team.

Copy to:

1. The Director of Technical Education,
Padmavilasam Rd, Fort, P.O, Pazhavangadi,
Thiruvananthapuram, Kerala 695023

2. The Registrar
APJ Abdul Kalam Technological University, Kerala
CET Campus, Alathara Rd, Ambady Nagar,
Thiruvananthapuram, Kerala 695016

3. Accreditation File

4. Master Accreditation file of the State

राष्ट्रीय प्रत्यायन बोर्ड

चौथा तल, ईस्ट टावर, एन. बी. सी. सी. प्लेस, भीष्म पितामह मार्ग, प्रगति विहार, लोधी रोड़, नई दिल्ली -110003

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4th Floor, East Tower, NBCC Place, Bhisham Pitamah Marg, Pragati Vihar, Lodhi Road, New Delhi 110003

File No: 26-11-2010-NBA

Date: 02.06.2023

To,
The Principal
Government Engineering College,
Thrissur, Kerala – 680009

Subject: Accreditation status of program applied by Government Engineering College, Thrissur, Kerala – 680009.

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This has reference to your application I.D. No. 5265-18/01/2021 seeking accreditation by National Board of Accreditation to PG Engineering programs applied by Government Engineering College, Thrissur, Kerala – 680009.

2. An Expert Team conducted onsite evaluation of the programs from **17th to 19th March, 2023**. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The Competent Authority in NBA has approved the following accreditation status to the program as given in the table below:

Sl. No.	Name of the Program(s) (PG)	Basis of Evaluation	Accreditation Status
(1)	(2)	(3)	(4)
1.	Computer Science & Engineering	May 2017 Document	Not Accredited *

* Observation made during the course of evaluation are indicated in Annexure to this letter.

3. A copy each of Report of Chairman of the Visiting Team and Evaluators' report in respect of the above program is enclosed.

4. If the Institute is not satisfied with the decision of NBA, it may appeal within thirty days of receipt of this communication giving reasons for the same and by paying the requisite fee.

Yours faithfully

(Dr. Anil Kumar Nassa)
Member Secretary

Encls.:
1. Copy of Report of Chairman of the Visiting Team.
2. Copy of Expert Report of the Visiting Team.

ANNEXURE

Government Engineering College, Thrissur, Kerala – 680009

Name of Program (s) (PG)	Observations
Computer Science & Engineering	No Professor with a Ph.D. degree with expertise in the domain of the program under consideration is available in CAY (2021-2022). Therefore, the program does not meet on of the essential parameters for accreditation for 3 years.

PART A

Evaluator's Visit Report

Postgraduate Engineering Program

Name of the Institution

Govt. Engineering College, Thrissur

Name of the Program

PG - Process control

Visit Dates

17 - 19th March 2023

NATIONAL BOARD OF ACCREDITATION
NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg,
Pragati Vihar, New Delhi 110003
Tel: +91 112430620-22; 01124360654; www.nbaind.org

Program Evaluator Summary

Overview

The Expert team of National Board of Accreditation (NBA) conducted a three day accreditation visit from 17 to 19th March Govt Engg College, Thrissur to evaluate PG Engineering program Process Control.

Pre visit meeting of the expert team was held on at 17/3/2023 at 8:00 am to exchange the respective findings with the evaluation team members, based on review of Self-Assessment Report (SAR) and the pre-visit evaluation reports.

During the visit, the visiting team met with Head of the Institution/Dean Principal. The briefing on the institution was given by Principal and on the program was given by the HOD, Chemical Engg. (Name of the Department/Program Coordinator) The respective program evaluators also visited the various facilities of the program. Apart from comprehensive review of documental evidences pertaining to various accreditation criteria, the visiting team also held meeting and discussions with the following stakeholders (kindly tick).

Faculty	☑	Alumni	☑
Employers	☑	Parents	☐
Staff members	☑	Students	☑

The Program Evaluation Team found that (general findings about the program to be mentioned)

The Department is running one UG and two PG programs in the Process Control and HSE.
Good number of faculty and Laboratory Supporting Staff.
SFR is good. The admission through GATE is almost negligible. Professional Society chapters exist in the department but activities and publication of magzine needs attention.
The infrastructure is sufficient and good space is available for the laboratories.

Program Details

		Name of the Program	PG- Process control		
Year of Commencement		1972			
Student	Year	Sanctioned Intake		Actual Admitted	
	CAY (2021 - 2022)	18		15	
	CAY m1 (2020 - 2021)	18		13	
	CAY m2 (2019 - 2020)	18		16	
	Total Students in the Programme 1st & 2nd Year	36		28	
	Averaged for CAY, CAYm1 and CAYm2	~~36~~ 18		~~30~~ 15	
Faculty (Attach a Copy of faculty list compared with Time Table)	Regular		CAY	CAYm1	CAYm2
		Professor	2	2	2
		Associate professor	7	7	7
		Assistant professor	5	6	5
	Contractual	Professor	—	—	—
		Associate professor	—	—	—
		Assistant professor	4	—	—
	No. of PhD. available in the dept.		10	10	10
	Student - Faculty ratio averaged over CAY, CAYm1 and CAYm2	$\left(\frac{259}{18} + \frac{230}{15} + \frac{201}{14}\right)/3 = 14.69$			
	Name of the faculty with the domain specific qualification for the program under consideration		CAY	CAYm1	
		Professor	Dr P.A. Soloman PhD (Chem. Engg) with expertise in the domain area	Dr PA Soloman	
		Associate Professor	Dr. Padmavathy K.S. M.Tech (Process Control) PhD (Chem. Engg).	Dr. Padmavathy K.S.	
Previous accreditation (if any)	First accreditation	No. of years accredited for	3 yrs (2018-19 to 2020-21)		
		With effect from	2018-19		
	Previous accreditation	No. of years accredited for	—		
		With effect from	—		

CAY: Current Academic Year
CAYm1: Current Academic Year minus 1= Current Assessment Year
CAYm2: Current Academic Year minus 2= Current Assessment Year minus 1

Consideration of Contractual Faculty means:
All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:

1. Shall have the AICTE prescribed qualifications and experience.
2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit.

Explicit observations about the program

(Please use additional sheets if necessary to elaborate)

Program title PG- Process control

Strengths:

1. Dedicated and hard working faculty in the Department
2. Good infrastructure and adequate space
3. Teaching – learning process is good.
4. SFR is very good
5. Laboratories are well maintained.

Weakness/Areas of improvement:

1. No industry supported lab
2. Industry - Institute interaction is less
3. Quality research publications in SCI Journals is less
4. Research and consultancy projects needs boosting
5. Labs. needs modernization
   More attention required for the projects in the domain area.

6-

Deficiencies:

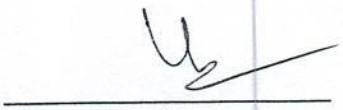
1. Admission through GATE is almost negligible.
2. No. Entrepreneurship
3.
4.
5.

Other Observations, if any:

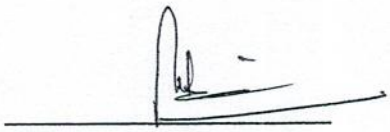
1. More equipments in the domain area to be added.
2.
3.
4.
5.

Department/Programme Specific Criteria:

S. No.	Criteria	Max. Marks	Marks Awarded	Remarks
1.	Program Curriculum and Teaching-Learning Processes	125	84	
2.	Program Outcomes and Course Outcomes	75	54	
3.	Students' Performance	75	40	
4.	Faculty Contributions	75	40	
5.	Laboratories and Research Facilities	75	54	
6.	Continuous Improvement	75	40	
	TOTAL	500	312	



Signature
(Program Evaluator 1)



Signature
(Program Evaluator 2)

Declaration of Conformity with evaluator's report by the Team Chair

I agree with the observations of the program evaluators on each criterion. ☑

Or

I agree with most of the observations of the program evaluators. However, I have following comments to make on certain criteria:

Criteria	Comments

Signature
(Chairperson)

Dr. S. MOHAN
Institute Chair Professor &
Professor of Civil Engineering
Environmental and Water Resources Engineering
Department of Civil Engineering
Indian Institute of Technology Madras
Chennai - 600 036.

Part B-Program Assessment Worksheet
Program Level Criteria - To be Assessed by Evalutaor

Name of the Institution Govt. Engineering College, Thrissur, Kerala
Name of the Program PG- Process Control

Criterion 1: Program Curriculum and Teaching – Learning Processes (125)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	
1.1.	Program Curriculum	35					
1.1.1.	State the process for designing the program curriculum	10	Process used to demonstrate how the program curriculum is evolved and periodically reviewed considering the POs.				
1.1.2.	Structure of the Curriculum	5	Refer to SAR: Expectation in 1.1.2 & 1.1.3 is that the curriculum is well balanced structure & appropriate for a PG program. In 1.1.2 look at the entire curriculum in detail. It shall allow an evaluator to identify oddities (if any) at the individual course level.				
1.1.3.	State the components of the curriculum	10	Refer to SAR: Expectation in 1.1.2 & 1.1.3 is that the curriculum is well balanced structure & appropriate for a PG program. In 1.1.3 the evaluator can see the distribution of credits amongst different components. It allows him to decide if the curriculum is balanced			Overall Marks for 1.1	
1.1.4.	Overall quality and level of program curriculum	10	Overall Judgement of the experts. The intent of this section is to arrive at a judgment on whether or the program can allow attainment of Program Outcomes. As such it relies heavily on the domain expertise of the Evaluator. He alone can decide if the program, as given, is capable of leading to PO attainment. Were the POs actually attained is to be determined in a later section.				

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

In case of affiliated institutions marks will be on content beyond to cover the gaps; if any from the POs attainment perspective. It will also Include the weightage on efforts put in to cover the gaps. The marks distribution will be as given below:

1.1.	Program Curriculum	35					
1.1.1.	Process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes	10		8		26 Overall Marks for 1.1	Actions taken to bridge the gap needs more attention.
1.1.2.	Appropriateness of the gaps identified	5		3.5			
1.1.3.	Actions taken to bridge the gap	10		7			
1.1.4.	Overall quality and level of program curriculum	10		7.5			

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.

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	
1.2.	Teaching-Learning Processes	90					
1.2.1.	Quality of end semester examination, internal semester question papers, assignments and evaluation	20	A. Process for end semester examination, internal semester question paper setting, evaluation and effective process implementation (3)	2	14		
			B. Process to ensure questions from outcomes/learning levels perspective (3)	2			
			C. Evidence of COs coverage in class tests/ Mid term tests. (7)	5			
			D. Quality of Assignment and its relevance to COs (7)	5			
1.2.2.	Quality of student projects	30	A. Very clear and concise objectives (5)	3	19	58	More attention is required for the research projects in M. Tech in domain area.
			B. Very clear methodology, articulated using technical terms indicating all steps and tools (5)	3.5			
			C. Cites substantial current and good quality literature (4)	2			
			D. Clarity in design/setting up of experiment (4)	2.5			
			E. Benchmarks used / Assumptions made (4)	3			
			F. Interpretation of results and justification thereof and validity of the results presented (4)	2.5			
			G. Overall presentation of the report (4)	2.5			
1.2.3.	Initiatives related to industry interaction including industry internship/summer training	10	A. Industry supported laboratories (2)	00	3	Overall Marks for 1.2	• No industry supported Lab • No industry involvement in partial delivery of a regular course. • Industrial training is not Compulsory. • No impact analysis of industrial Trainng including Students feedback.
			B. Industry involvement in partial delivery of any regular courses for students (1)	00			
			C. Impact analysis of industry institute interaction and actions taken thereof (1)	1			
			D. Industrial training/tours for students (1)	1			
			E. Industrial /internship /summer training of more than two weeks and post training Assessment (2)	1			
			F. Impact analysis of industrial training (1)	00			
			G. Student feedback on initiative (2)	00			
1.2.4.	Participation of Industry professionals in curriculum development, as examiners, in major projects	10	Documentary Evidence	7	7		
1.2.5.	Quality of laboratory work given	20	Qualitative judgement of the experts. Are the experiments so well structured that these can be done by simply following the given set of instructions?" One may not learn much in that case. Usefulness of laboratory work can be better evaluated by the amount of thought effort a student is required to put in to complete the tasks. In that case learning can happen and POs can be attained.	15	15		
Total of Criterion 1:		125	Overall Marks and Grade for Criterion 1:			84	

Criterion 2: Program Outcomes and Course Outcomes (75)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
2.1.	Establish the connect between the courses and the POs	15	A. Evidence of COs being defined for every course (3)	2	10	10 Overall Marks for 2.1	COs and Programs Articulation matrix tables needs more attention.
			B. Availability of COs embedded in the syllabi (3)	2			
			C. Explanation of Course Articulation Matrix table to be ascertained (3)	2			
			D.Explanation of Program Articulation Matrix tables to be ascertained (6)	4			
2.2.	Attainment of Program Outcomes	60				44 Overall Marks for 2.2	
2.2.1.	Describe the assessment tools and processes used to gather the data upon which the evaluation of Program Outcome is based	20	A. List of assessment tools & processes (10)	7.5	15		
			B. The quality/relevance of assessment tools/processes used (10)	7.5			
2.2.2.	POs attainment levels with observations	40	A. Verification of documents, results and level of attainment of each PO (30)	22	29		
			B. Overall levels of attainment (10)	7			
Total of Criterion 2:		75	Overall Marks and Grade for Criterion 2:			54	

Criterion 3: Students' Performance (75)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
3.1.	Enrolment Ratio through GATE	20	A. >= 80% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year (20) B. >= 60% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(16) C. >= 50% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year (12) D. >= 40% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(8) E. >= 20% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(6) ✓ E. < 20 % students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(0)	00	00	Overall Marks for 3.1: 00	$\left(\frac{0}{18}+\frac{1}{18}+\frac{0}{10}\right)/3 = \frac{1}{54}$ $\frac{1}{18}\times 100 = 5\%$ Mention Numbers
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 S.I. for the last 3 batches Assessment points = 20 X Average S.I.	18	18	Overall Marks for 3.2: 18	$SI = \frac{1+0.83+0.94}{3} = 0.92$ Avg SI = 0.92 × 20 = 18.4 Mention Numbers
3.3.	Placement, Higher studies and Entrepreneurship	20	Assessment Points = 20 × average placement , i.e., (P1+P2+P3)/3 Placement Index (P) =[(x + y + z)/N]; where, x = Number of students placed in companies or Government sector y = Number of students pursuing Ph.D. / JRF/ SRF z = No. of students turned entrepreneur in engineering/technology N = Total number of students admitted in first year	14	14	14 Overall Marks for 3.3	Avg. placement = $\left(\frac{15}{18}+\frac{11}{16}+\frac{10}{13}\right)/3$ = 0.71 × 20 = 14 Mention Numbers

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
3.4.	Professional Activities	15				8 Overall Marks for 3.4	• Documentary evidences is not proper. • Professional events organized are less
3.4.1.	Student's participation in Professional societies/chapters and organizing engineering events	5	A. Availability & activities of professional societies/chapters (3)	2	3		
			B. Number, quality of engineering events (organized at institute) Level- Institute/State/ National/ International Levels) (2)	1			
3.4.2.	Student's publications	10	A. Quality & Relevance of the contents and Print Material (3)	1	5		
			B. Participation of Students from the program (2)	1			
			C. List the publications along with the names of the authors and publishers, etc.(5)	3			
Total of Criterion 3:		75	Overall Marks and Grade for Criterion 3:			40	

Criterion 4: Faculty Contributions (75)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	
4.1.	Student-Faculty Ratio (SFR)	10	•Marks to be given proportionally from a maximum of 10 to a minimum of 05 for average SFR between 15:1 to 25:1, and zero for average SFR higher than 25:1. Marks distribution is given as below: < = 15-10 Marks < = 17-09 Marks < = 19-08 Marks < = 21-07 Marks < = 23- 06 Marks < = 25-05 Marks >25.0-0 Marks **Consideration of Contractual Faculty means:** All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty: 1.Shall have the AICTE prescribed qualifications and experience. 2.Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration. 3.Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit	10	10	10 Overall Marks for 4.1	$\left(\frac{259}{18}+\frac{230}{15}+\frac{201}{14}\right)/3$ $= 14.69$
4.2.	**Faculty competencies in the area of Program Specialization**	30				Overall Marks for 4.2. 21	Faculty competency in the domain area to be enhanced • Quality publications are less
4.2.1.	Faculty competency in the domain area.	10		07	21		
4.2.2	Faculty Research Publication	10		07			
4.2.3.	Faculty Development work	10		07			
4.3.	**Faculty as participants in Faculty development /training activities /STTPs**	5	Relevance of Training Program	4		Overall Marks for 4.3. 4	

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
4.4.	Research and Development	30					
4.4.1.	Sponsored Research	15	Funded research from outside; Cumulative for CAYm1, CAYm2 and CAY m3: Amount >50Lacs 15 Marks, Amount >40 and <50Lacs - 10 Marks, Amount >30 and <40Lacs - 5 Marks, Amount>15and <30Lacs - 2 Marks, Amount< 15 Lacs - 0 Mark	00	00	05 Overall Marks for 4.4.	Rs 13.47 lacs More attention is required for consultancy and Sponsored research projects Mention numbers Rs 5.8 lacs
4.4.2.	Consultancy (From Industry)	15	Consultancy; Cumulative for CAYm1, CAYm2 and CAY m3: 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 Mark	5	5		
Total of Criterion 4:		75	Overall Marks and Grade for Criterion 4:			40	

Criterion 5: Laboratories and Research Facilities (75)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
5.1.	Adequate and well equipped laboratories in area of Program specialization	30	A. Adequate well-equipped laboratories to run all the program-specific curriculum (20)	15	23	Overall Marks for 5.1: 23	
			B. Availability of adequate and qualified technical supporting staff (10)	8			
5.2.	Research facilities / center of excellence	30		20	20	Overall Marks for 5.2: 20	No centre of excellence.
5.3.	Access to laboratory facilities, training in the use of equipment	15		11	11	Overall Marks for 5.3: 11	
Total of Criterion 5:		75	Overall Marks and Grade for Criterion 5:			54	

Criterion 6: Continuous Improvement (75)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
6.1.	Actions taken based on the results of evaluation of each of the POs	25	A. Documentary Evidence of POs attainment levels (10)	7	17	Overall Marks for 6.1: 17	No improvement in ~~placement~~ PO's attainment level
			B. Identification of gaps/shortfalls (5)	3			
			C. Plan of action to bridge the gap and its Implementation (10)	7			
6.2.	Improvement in quality of projects	10		7	7	Overall Marks for 6.2: 7	Projects quality needs improvement
6.3.	Improvement in Placement, Higher Studies and Entrepreneurship	10	A. Improvement in Placements numbers, quality, core hiring industry and pay packages (5)	2	3	Overall Marks for 6.3: 3	No improvement in placement, Entrepreneurship is almost negligible
			B. Improvement in Higher Studies admissions for pursuing PhD. in premier institutions (3)	1			
			C. Improvement in number of Entrepreneurs (2)	00			
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	02	2	Overall Marks for 6.4: 2	No improvement in admission through GATE
6.5.	Improvement in quality of paper publication	10		5	5	Overall Marks for 6.5: 5	More attention is required in research publications in SCI Journals
6.6.	Improvement in laboratories	10		6	6	Overall Marks for 6.6: 6	More equipments in the domain area to be added.
Total of Criterion 6:		75	Overall Marks and Grade for Criterion 6			40	

19/3/23

Chairperson's Visit Report

Postgraduate Engineering Program

Name of the Institution

Government Engineering College, Thrissur, Kerala

Name of the Program

PG

Visit Dates

17th to 19th March, 2023

NATIONAL BOARD OF ACCREDITATION
NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg, Pragati Vihar, New Delhi 110003
Tel: +91 112430620-22; 01124360654; www.nbaind.org

Team composition

Name of the Chairperson: Dr. S Moham
Designation: Professor

Program 1: PG – Environmental Engineering

Program evaluator 1	Name Prof. Sanjay Sharma
	Organization: NITTTR, Chandigarh

Program evaluator 2	Name Dr. V. M. Topkar [former Dy. Director & Prof.]
	Organization: VJTI, Mumbai

Program 2: PG Power Systems

Program evaluator 1	Name Dr. Manjaree Pandit
	Organization: Madhav Institute of Tech & Science, Gwalior

Program evaluator 2	Name Prof S.S. Dambhare
	Organization: College of Engineering, Pune

Program 3: PG – Process Control

Program evaluator 1	Name Prof. V. K. Ratten [Vice Chancellor]
	Organization: GNA University, Chandigarh

Program evaluator 2	Name Dr. Mohammad Kamil
	Organization: Zakir Hussain College of Engg. & Tech, AMU, Aligarh.

Program 4: PG – Computer Science & Engineering

Program evaluator 1	Name Prof. Sanjay Sakha-Nath Tanwani
	Organization: Devi Ahilya University, Indore

Program evaluator 2	Name Dr. Rajeev Srivastava
	Organization: IIT BHU, Varanasi

Program 5:

Program evaluator 1	Name
	Organization:

Program evaluator 2	Name
	Organization:

Institute Details

Year of Establishment: 1957

Physical Infrastructure and Ambience: _____

Number of programs being run in the Institute*:

(i) UG- 08

(ii) PG - 18

Total Number of Students:

(i) In UG programs - 640

(ii) In PG programs - 297

Name of programs applied for accreditation

(i) PG – Environmental Engineering

(ii) PG – Power Systems

(iii) PG – Process Control

(iv) PG – Computer Science & Engineering

(v) _____

**to be verified from SAR*

EVALUATION CRITERIA

AWARD OF ACCREDITATION FOR THE PG ENGINEERING PROGRAMS

Accreditation for 6 years:

i. Program should score greater than or equal to 375 with 60 per cent in each criteria.

ii. 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).

iii. 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).

iv. 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).

Accreditation for 3 years:

i. Program should score greater than or equal to 300 with 50 per cent in Criterion–IV (Faculty Contribution).

ii. Corresponding UG Program should be accredited by NBA.

iii. In case of Tier I, the corresponding UG Engineering program should have been granted with at least 3 Compliances (Y) for the SAR with 9 criteria and 4 Compliances (Y) for the SAR with 10 criteria or In case of Tier II, the corresponding UG Engineering program should have been granted with at least 650 marks out of 1000.

iv. 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).

v. 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).

vi. 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)

No Accreditation

If the program fails to meet the criteria for award of accreditation for three years, it is awarded "Not Accredited" Status

Name of the Program 1: PG – Environmental Engineering

Marks given by Evaluators:

S. No.	Criteria	Max. Marks	Marks Awarded	Remarks
1.	Program Curriculum and Teaching-Learning Processes	125	71	
2.	Program Outcomes and Course Outcome	75	57	
3.	Students' Performance	75	54	
4.	Faculty Contributions	75	64	
5.	Laboratories and Research Facilities	75	54	
6.	Continuous Improvement	75	41	
TOTAL		500	341	

Signature (Chairman)

Dr. S. MOHAN
Institute Chair Professor &
Professor of Civil Engineering
Environmental and Water Resources Engineering
Department of Civil Engineering
Indian Institute of Technology Madras
Chennai - 600 036.

Name of the Program 2: PG – Power System

Marks given by Evaluators:

S. No.	Criteria	Max. Marks	Marks Awarded	Remarks
1.	Program Curriculum and Teaching-Learning Processes	125	71	
2.	Program Outcomes and Course Outcome	75	48	
3.	Students' Performance	75	51	
4.	Faculty Contributions	75	47	
5.	Laboratories and Research Facilities	75	59	
6.	Continuous Improvement	75	44	
TOTAL		500	320	

Signature
(Chairman)

Dr. S. MOHAN
Institute Chair Professor &
Professor of Civil Engineering
Environmental and Water Resources Engineering
Department of Civil Engineering
Indian Institute of Technology Madras
Chennai - 600 036.

Name of the Program 3: PG - Process Control

Marks given by Evaluators:

S. No.	Criteria	Max. Marks	Marks Awarded	Remarks
1.	Program Curriculum and Teaching-Learning Processes	125	84	
2.	Program Outcomes and Course Outcome	75	54	
3.	Students' Performance	75	40	
4.	Faculty Contributions	75	40	
5.	Laboratories and Research Facilities	75	54	
6.	Continuous Improvement	75	40	
TOTAL		500	312	

Signature
(Chairman)

Dr. S. MOHAN
Institute Chair Professor &
Professor of Civil Engineering
Environmental and Water Resources Engineering
Department of Civil Engineering
Indian Institute of Technology Madras
Chennai - 600 036.

Name of the Program 4: PG – Computer Science & Engineering

Marks given by Evaluators:

S. No.	Criteria	Max. Marks	Marks Awarded	Remarks
1.	Program Curriculum and Teaching-Learning Processes	125	81	
2.	Program Outcomes and Course Outcome	75	51	
3.	Students' Performance	75	50	
4.	Faculty Contributions	75	38	
5.	Laboratories and Research Facilities	75	51	
6.	Continuous Improvement	75	48	
TOTAL		500	319	

Signature
(Chairman)

Dr. S. MOHAN
Institute Chair Professor &
Professor of Civil Engineering
Environmental and Water Resources Engineering
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Overall Observations

1.

S. No.	Name of the Program	Intake			Admissions	Student-Faculty Ratio
		CAY	CAYm1	CAYm2	*Average of CAY, CAYm1 and CAYm2*	*Average of CAY, CAYm1 and CAYm2*
1	PG-Env. Engineering	18	18	18	18	17.11
2	PG-Power Systems	18	18	18	17.33 ≈ 17	13.50
3	PG-Process Control	18	18	18	15	14.69
4	PG-Computer Science & Engineering	18	18	18	18	15.52

- *Also, see the evaluator's report for the above parameters and if you disagree with the same, kindly give your comment.*

2. **About the progress since last accreditation (to be filled for institutes who have applied for re- accreditation)** First Accreditation

3. **Observation on general facilities and about the programs.**

Strength —

(1) Infrastructure in the college is very good.

(2) Good number of well-qualified faculty members.

(3) Student enrolment ratio is very good

(4) Hostel facilities are good.

Concern —

(1) Sponsored research & consultancy project needs a big push in all the specialization of the departments and that would enhance the learning of PG students.

(2) The research publications by the faculty members in high quality journals is a concern.

(3) More emphasis on Industry-related training for students in the curriculum along with Industrial case studies needs to be incorporated

(4) Establishment of Centre of excellence in certain cutting edge research area is lacking for this long-standing Institute.

(5) The outdoor sports facility and the indoor games facility are not at all adequate.

(6) Entrepreneurship cell activities, IQAC, Industry-Institute-Interaction, self-learning materials for students are of concern.

(7) There is no ambulance and the facilities for differently abled person are not there.

(8) Participation in FDP by faculty or conduct of FDP for faculty members of other Institutions needs to be improved a lot in many departments.

(9) More training/awareness programs on OBE need to be arranged both for faculty and students, before too much time elapses.

Weakness -

(1) Placement cell is the weakest link and its activities need to be improved and should be started much earlier.

(2) Teaching pedagogical tools or methods other than chalk and Talk, and power-point methods are merely or not at all used by faculty members and there is ample scope for utilizing the different teaching methods or pedagogical approaches, depending upon the nature of course.

(3) The support activities for academically weak students needs improvement.

(4) Research scholar may be allowed to work after office hours, since the college closes at 4pm itself.

4. Status of imbibing of outcome based accreditation.

(1) Formulation of PEOs, COs & mapping needs improvement and there is variability among departments.

(2) The attainment level are fixed low and it is uncommon for a long standing Institution.

(3) The continual improvement process being carried out by IQAC. but needs improvement.

(4) Most of the stakeholders are aware of the OBE process

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GE Env. Engg.

PART A

Evaluator's Visit Report

Postgraduate Engineering Program

Name of the Institution

Government Engineering College
Thrissur 680009, Kerala

Name of the Program

M Tech (Environmental Engineering)

Visit Dates

17-18-19 March 2023

NATIONAL BOARD OF ACCREDITATION
NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg,
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Program Evaluator Summary

Overview

The Expert team of National Board of Accreditation (NBA) conducted a three day accreditation visit from 17/3 to 19/3 Govt Eng College, Thrissur to evaluate PG Engineering program Environmental Engineering

Pre visit meeting of the expert team was held on at 17.3.23 at 8.00 AM to exchange the respective findings with the evaluation team members, based on review of Self-Assessment Report (SAR) and the pre-visit evaluation reports.

During the visit, the visiting team met with Head of the Institution/Dean Dr Bindu G R. The briefing on the institution was given by Dr Bindu G R and on the program was given by the Dr Nowshaja P T, Head of the Dept The respective program evaluators also visited the various facilities of the program. Apart from comprehensive review of documental evidences pertaining to various accreditation criteria, the visiting team also held meeting and discussions with the following stakeholders (kindly tick).

Faculty	☑	Alumni	☑
Employers	☑	Parents	☑
Staff members	☑	Students	☑

The Program Evaluation Team found that (general findings about the program to be mentioned)

Govt Engineering college Thissur is Affliated to APJ Technological university, Kerla and was established in 01957. The PG Dept in Environmental Engg was Started in 1971 and has intake of Eighteen students. During the visit it was observed that PG Programme in Environmental Engg has adequate qualified faculty; Good laboratories and staff to run the Programme. The placements are adequate and Good Project Work is being done by the final year students. The Programme was accredited for three years in in 2018.

(V M Toplam)

Program Details

Name of the Program					
Year of Commencement	1957				
Student	Year	Sanctioned Intake	Actual Admitted		
	CAY (2021 - 2022)	18	18		
	CAY m1 (2020 - 2021)	18	18		
	CAY m2 (2019 - 2020)	18	18		
	Total Students in the Programme 1st & 2nd Year	36			
	Averaged for CAY, CAYm1 and CAYm2	18			
Faculty (Attach a Copy of faculty list compared with Time Table)	Regular		CAY	CAYm1	CAYm2
		Professor	06	09	12
		Associate professor	10	12	12
		Assistant professor	10	08	04
	Contractual	Professor	-	-	-
		Associate professor	-	-	-
		Assistant professor	06	03	05
	No. of PhD. available in the dept.				
	Student - Faculty ratio averaged over CAY, CAYm1 and CAYm2	17.11			
	Name of the faculty with the domain specific qualification for the program under consideration		CAY	CAYm1	
		Professor	Dr Meera V	Dr Meera V	
		Associate Professor	1. Dr Minimol 2. Dr Sosamma 3. Dr A L Neera 4. Prof Bindu G 5. Prof Meena	1. Dr Minimol 2. Dr Sosamma 3. Dr A L Neera 4. Prof Bindu G 5. Prof Meera	
Previous accreditation (if any)	First accreditation	No. of years accredited for	3 years		
		With effect from	2018		
	Previous accreditation	No. of years accredited for	-		
		With effect from	-		

CAY: Current Academic Year
CAYm1: Current Academic Year minus 1= Current Assessment Year
CAYm2: Current Academic Year minus 2= Current Assessment Year minus 1

Consideration of Contractual Faculty means:
All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:

1. Shall have the AICTE prescribed qualifications and experience.
2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit.

Explicit observations about the program

(Please use additional sheets if necessary to elaborate)

Program title M. Tech. (Environmental Engineering)

Strengths:

1. The Programme had good faculty ratio and well qualified faculty available for the Prg.
2. The Enrollment ratio with Gate is also adequate.
3. Success rate in the stipulated period is good.
4. Faculty with required competence in ave domain area available
5. The faculty has good no. of sponsored Projects.
6. Well equipped labs available for the Prg.

Weakness/Areas of improvement:

1. Industry Participation in curriculum design and Projects is less
2. Industrial Training and industry supported levels are not available
3. The lab work given to student is not designed so as to apply thought Process in conduct of experiment.
4. Students Publication from dissertation work is very less.
5. Faculty Publication in good journals is inadequate and not all faculty is Publishing Papers.

Deficiencies:

1. Industry - Institute interaction needs improvement.
2.
3.
4.
5.

Other Observations, if any:

1.
2.
3.
4.
5.

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No Accreditation

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Department/Programme Specific Criteria:

S. No.	Criteria	Max. Marks	Marks Awarded	Remarks
1.	Program Curriculum and Teaching-Learning Processes	125	71	
2.	Program Outcomes and Course Outcomes	75	57	
3.	Students' Performance	75	54	
4.	Faculty Contributions	75	64	
5.	Laboratories and Research Facilities	75	54	
6.	Continuous Improvement	75	41	
	TOTAL	500	341	

Dr. Sagar K Shaw

Signature
(Program Evaluator 1)

Vinay M Toplcar

Signature
(Program Evaluator 2)

Declaration of Conformity with evaluator's report by the Team Chair

I agree with the observations of the program evaluators on each criterion. ☑

Or

I agree with most of the observations of the program evaluators. However, I have following comments to make on certain criteria:

Criteria	Comments

Signature
(Chairperson)

Dr. S. MOHAN
Institute Chair Professor &
Professor of Civil Engineering
Environmental and Water Resources Engineering
Department of Civil Engineering
Indian Institute of Technology Madras
Chennai - 600 036.

Part B-Program Assessment Worksheet
Program Level Criteria - To be Assessed by Evalutaor

Name of the Institution Govt Engg College, Thrissur
Name of the Program M Tech (Environmental Engineering)

Criterion 1: Program Curriculum and Teaching – Learning Processes (125)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
1.1.	Program Curriculum	35					
1.1.1.	State the process for designing the program curriculum	10	Process used to demonstrate how the program curriculum is evolved and periodically reviewed considering the POs.				
1.1.2.	Structure of the Curriculum	5	Refer to SAR: Expectation in 1.1.2 & 1.1.3 is that the curriculum is well balanced structure & appropriate for a PG program. In 1.1.2 look at the entire curriculum in detail. It shall allow an evaluator to identify oddities (if any) at the individual course level.				
1.1.3.	State the components of the curriculum	10	Refer to SAR: Expectation in 1.1.2 & 1.1.3 is that the curriculum is well balanced structure & appropriate for a PG program. In 1.1.3 the evaluator can see the distribution of credits amongst different components. It allows him to decide if the curriculum is balanced			Overall Marks for 1.1	
1.1.4.	Overall quality and level of program curriculum	10	Overall Judgement of the experts. The intent of this section is to arrive at a judgment on whether or the program can allow attainment of Program Outcomes. As such it relies heavily on the domain expertise of the Evaluator. He alone can decide if the program, as given, is capable of leading to PO attainment. Were the POs actually attained is to be determined in a later section.				

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

In case of affiliated institutions marks will be on content beyond to cover the gaps; if any from the POs attainment perspective. It will also include the weightage on efforts put in to cover the gaps. The marks distribution will be as given below:

1.1.	Program Curriculum	35					
1.1.1.	Process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes	10		7	7	Overall Marks for 1.1	Elaborate process is defined, logical justification is missing
1.1.2.	Appropriateness of the gaps identified	5		3	3		Gaps identified. Process is not effective
1.1.3.	Actions taken to bridge the gap	10		5	5	22	Action taken to bridge gap insufficient, effectiveness is not verified.
1.1.4.	Overall quality and level of program curriculum	10		7	7		overall balanced, some lacuna not enough to meet all POs

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.

(Sanjay L Shanbag)

(Vinay M Tapkar)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
1.2.	**Teaching-Learning Processes**	90					
1.2.1.	Quality of end semester examination, internal semester question papers, assignments and evaluation	20	A. Process for end semester examination, internal semester question paper setting, evaluation and effective process implementation (3)	2	13		Process for moderation / evaluation of QP exists. Process to ensure OC perspective in QP exists. Documentation available for CO coverage in tests. Assignments relevant but need improvement to meet CO attainment.
			B. Process to ensure questions from outcomes/learning levels perspective (3)	2			
			C. Evidence of COs coverage in class tests/ Mid term tests. (7)	5			
			D. Quality of Assignment and its relevance to COs (7)	4			
1.2.2.	Quality of student projects	30	A. Very clear and concise objectives (5)	4	22		Quality of student projects is good, need to increase number of industry related topics.
			B. Very clear methodology, articulated using technical terms indicating all steps and tools (5)	3			
			C. Cites substantial current and good quality literature (4)	3			
			D. Clarity in design/setting up of experiment (4)	3			
			E. Benchmarks used / Assumptions made (4)	3			
			F. Interpretation of results and justification thereof and validity of the results presented (4)	3			
			G. Overall presentation of the report (4)	3			
1.2.3.	Initiatives related to industry interaction including industry internship/summer training	10	A. Industry supported laboratories (2)	0	01	Overall Marks for 1.2 49	No industry involvement in development of labs, delivery of curriculum etc. Students have done only very few visits to industry.
			B. Industry involvement in partial delivery of any regular courses for students (1)	0			
			C. Impact analysis of industry institute interaction and actions taken thereof (1)	0			
			D. Industrial training/tours for students (1)	1			
			E. Industrial /internship /summer training of more than two weeks and post training Assessment (2)	0			
			F. Impact analysis of industrial training (1)	0			
			G. Student feedback on initiative (2)	0			
1.2.4.	Participation of Industry professionals in curriculum development, as examiners, in major projects	10	Documentary Evidence	3	03		Very limited participation in curriculum development. No participation in project evaluation
1.2.5.	Quality of laboratory work given	20	Qualitative judgement of the experts. Are the experiments so well structured that these can be done by simply following the given set of instructions?" One may not learn much in that case. Usefulness of laboratory work can be better evaluated by the amount of thought effort a student is required to put in to complete the tasks. In that case learning can happen and POs can be attained.	10	10		Only set experiments as defined in curriculum are done. Students are not required to apply any thought process to set up & conduct experiments.
Total of Criterion 1:		125	**Overall Marks and Grade for Criterion 1:**			71	

Criterion 2: Program Outcomes and Course Outcomes (75)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
2.1.	Establish the connect between the courses and the POs	15	A. Evidence of COs being defined for every course (3)	3	11	Overall Marks for 2.1 11	COs defined & part of syllabus. Articulation matrix prepared but not explained properly.
			B. Availability of COs embedded in the syllabi (3)	3			
			C. Explanation of Course Articulation Matrix table to be ascertained (3)	2			
			D.Explanation of Program Articulation Matrix tables to be ascertained (6)	3			
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	A. List of assessment tools & processes (10)	8	16	Overall Marks for 2.2 46	Assessment tools & processes defined, are relevant.
			B. The quality/relevance of assessment tools/processes used (10)	8			
2.2.2.	POs attainment levels with observations	40	A. Verification of documents, results and level of attainment of each PO (30)	23	30		PO attainment level computation documentation available
			B. Overall levels of attainment (10)	7			
Total of Criterion 2:		75	Overall Marks and Grade for Criterion 2:			57	

Criterion 3: Students' Performance (75)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
3.1.	Enrolment Ratio through GATE	20	A. >= 80% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year (20) B. >= 60% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(16) C. >= 50% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year (12) D. >= 40% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(8) E. >= 20% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(6) E. < 20 % students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(0)	16	16	Overall Marks for 3.1 16	Mention Numbers $\{12/18 + 12/18 + 13/18\}^{1/3}$ ≈ 0.68
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 S.I. for the last 3 batches Assessment points = 20 X Average S.I.	20	20	Overall Marks for 3.2 20	$\{17/18 + 18/18 + 18/18\} \times \frac{1}{3} \times 20$ Mention Numbers ≈ 19.60
3.3.	Placement, Higher studies and Entrepreneurship	20	Assessment Points = 20 × average placement , i.e., (P1+P2+P3)/3 Placement Index (P) =[(x + y + z)/N]; where, x = Number of students placed in companies or Government sector y = Number of students pursuing Ph.D. / JRF/ SRF z = No. of students turned entrepreneur in engineering/technology N = Total number of students admitted in first year	10	10	Overall Marks for 3.3 10	$\left[\frac{12+0+0}{18} + \frac{4+0+0}{18} + \frac{1+0+0}{18}\right]^{\frac{1}{3}} \times 20$ Mention Numbers ≈ 10.2

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
3.4.	**Professional Activities**	15				Overall Marks for 3.4 08	Chapters of ISTE, IE(I) & ICI exist for activities are less in no. Student publications are very less
3.4.1.	Student's participation in Professional societies/chapters and organizing engineering events	5	A. Availability & activities of professional societies/chapters (3)	2	03		
			B. Number, quality of engineering events (organized at institute) Level- Institute/State/ National/ International Levels) (2)	1			
3.4.2.	Student's publications	10	A. Quality & Relevance of the contents and Print Material (3)	2	05		
			B. Participation of Students from the program (2)	1			
			C. List the publications along with the names of the authors and publishers, etc.(5)	2			
Total of Criterion 3:		75	**Overall Marks and Grade for Criterion 3:**			54	

Criterion 4: Faculty Contributions (75)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
4.1.	**Student-Faculty Ratio (SFR)**	10	•Marks to be given proportionally from a maximum of 10 to a minimum of 05 for average SFR between 15:1 to 25:1, and zero for average SFR higher than 25:1. Marks distribution is given as below: < = 15-10 Marks < = 17-09 Marks < = 19-08 Marks < = 21-07 Marks < = 23- 06 Marks < = 25-05 Marks >25.0-0 Marks **Consideration of Contractual Faculty means:** All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty: 1.Shall have the AICTE prescribed qualifications and experience. 2.Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration. 3.Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit	10	10	Overall Marks for 4.1 10	$\left\{\frac{558}{32}+\frac{547}{32}+\frac{556}{33}\right\}\frac{1}{3}$ ≈ 17.11
4.2.	**Faculty competencies in the area of Program Specialization**	30				Overall Marks for 4.2. 20	Competent faculty available Publications available but limited in no & few faculty has the publications Involvement of faculty in development work is limited
4.2.1.	Faculty competency in the domain area.	10		9	20		
4.2.2	Faculty Research Publication	10		6			
4.2.3.	Faculty Development work	10		5			
4.3.	**Faculty as participants in Faculty development /training activities /STTPs**	5	Relevance of Training Program	4	4	Overall Marks for 4.3. 04	Relevant training programs arrayed faculty participation is adequate.

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
4.4.	Research and Development	30					
4.4.1.	Sponsored Research	15	Funded research from outside; Cumulative for CAYm1, CAYm2 and CAY m3: Amount >50Lacs 15 Marks, Amount >40 and <50Lacs - 10 Marks, Amount >30 and <40Lacs - 5 Marks, Amount>15and <30Lacs - 2 Marks, Amount< 15 Lacs - 0 Mark	15	15	Overall Marks for 4.4. 30	Funded research amounting Rs 60.05 lakhs (contribution of Env Eng faculty is ~~negligible~~ adequate.) Mention numbers
4.4.2.	Consultancy (From Industry)	15	Consultancy; Cumulative for CAYm1, CAYm2 and CAY m3: 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 Mark	15	15		Consultancy amounting to Rs 4 cr (contribution of Env Eng faculty is negligible)
Total of Criterion 4:		75	Overall Marks and Grade for Criterion 4:			64	

Criterion 5: Laboratories and Research Facilities (75)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
5.1.	Adequate and well equipped laboratories in area of Program specialization	30	A. Adequate well-equipped laboratories to run all the program-specific curriculum (20)	17	25	Overall Marks for 5.1 25	Laboratay instruments in good condition, matches curriculum requirement
			B. Availability of adequate and qualified technical supporting staff (10)	8			
5.2.	Research facilities / center of excellence	30		17	17	Overall Marks for 5.2 17	No CoE exists, more state of art eqpt desirable
5.3.	Access to laboratory facilities, training in the use of equipment	15		12	12	Overall Marks for 5.3 12	Access available after working hours.
Total of Criterion 5:		75	Overall Marks and Grade for Criterion 5:			54	

Criterion 6: Continuous Improvement (75)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
6.1.	Actions taken based on the results of evaluation of each of the POs	25	A. Documentary Evidence of POs attainment levels (10)	8	16	Overall Marks for 6.1 16	Action plan to bridge gaps is missing in content & implementation evidence of po
			B. Identification of gaps/shortfalls (5)	3			
			C. Plan of action to bridge the gap and its Implementation (10)	5			
6.2.	Improvement in quality of projects	10		6	06	Overall Marks for 6.2 06	No substantial improvement observed
6.3.	Improvement in Placement, Higher Studies and Entrepreneurship	10	A. Improvement in Placements numbers, quality, core hiring industry and pay packages (5)	2	02	Overall Marks for 6.3 02	No improvement in placement
			B. Improvement in Higher Studies admissions for pursuing PhD. in premier institutions (3)	0			
			C. Improvement in number of Entrepreneurs (2)	0			
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	5	5	Overall Marks for 6.4 05	No significant chaye in quality of students
6.5.	Improvement in quality of paper publication	10		5	5	Overall Marks for 6.5 05	No significant improvement
6.6.	Improvement in laboratories	10		7	7	Overall Marks for 6.6 07	Very few instruments added during evaluatin period
Total of Criterion 6:		75	Overall Marks and Grade for Criterion 6			41	

PS/EGE

PART A

Evaluator's Visit Report

Postgraduate Engineering Program

Name of the Institution

Govt. Engineering College, Thrissur, Kerala

Name of the Program

PG - Power Systems

Visit Dates

17th to 19th March 2023.

NATIONAL BOARD OF ACCREDITATION
NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg,
Pragati Vihar, New Delhi 110003
Tel: +91 112430620-22; 01124360654; www.nbaind.org

18/3/2023

18/3/2023

Program Evaluator Summary

Overview

The Expert team of National Board of Accreditation (NBA) conducted a three day accreditation visit from 17/3/23 to 19/3/2023 Government Engineering College, Thrissur, Kerala to evaluate PG Engineering program PG - Power System.

Pre visit meeting of the expert team was held on at Hotel, on 17/3/23, at 8 am to exchange the respective findings with the evaluation team members, based on review of Self-Assessment Report (SAR) and the pre-visit evaluation reports.

During the visit, the visiting team met with Head of the Institution/Dean Dr. Bindu G.R, Principal The briefing on the institution was given by Principal and on the program was given by the Dr. Jasmin E.A, HOD Program Coordinator. The respective program evaluators also visited the various facilities of the program. Apart from comprehensive review of documental evidences pertaining to various accreditation criteria, the visiting team also held meeting and discussions with the following stakeholders (kindly tick).

Faculty	☑	Alumni	☐
Employers	☐	Parents	☐
Staff members	☐	Students	☐

The Program Evaluation Team found that (general findings about the program to be mentioned)

- The department is well maintained and spacious.
- Good team work is observed in general.

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Program Details

Name of the Program					
Year of Commencement		PG1 + PG2 + UG1		PG1 + PG2 + UG1	
Student	Year	Sanctioned Intake		Actual Admitted	
	CAY (2021 - 2022)	18 + 18 + 132		15 + 15 + 128 (11g + 9)	
	CAY m1 (2020 - 2021)	18 + 18 + 132		19 + 19 + 132 (including EWS)	
	CAY m2 (2019 2020)	18 + 18 + 110		18 + 18 + 114	
	Total Students in the Programme 1st & 2nd Year	36 + 37 (including EWS as per GOVT)			
	Averaged for CAY, CAYm1 and CAYm2	18 + 18 + 123		17.33 + 17.33 + 124	
Faculty (Attach a Copy of faculty list compared with Time Table)	Regular		CAY	CAYm1	CAYm2
		Professor	5	7	5
		Associate professor	14	13	17
		Assistant professor	14	9	8
	Contractual	Professor	—	—	—
		Associate professor	—	—	—
		Assistant professor	1	2	4
	No. of PhD. available in the dept.		12	15	13
	Student - Faculty ratio averaged over CAY, CAYm1 and CAYm2	@14 (13.5)			
	Name of the faculty with the domain specific qualification for the program under consideration		CAY	CAYm1	
		Professor	Dr. Jasmin E.A. Dr. Bindhumol E.K. Dr Suresh K.D. Dr Meenakshy K.	Dr Bindhumol E.K. Dr Suresh K.D. Dr Meenakshy K.	
		Associate Professor	Prof. Subadhra P.R. Dr Mini V. Dr M.J. Laly	Prof. Subadhra P.R. Dr. Mini V. Prof M.J. Laly.	
Previous accreditation (if any)	First accreditation	No. of years accredited for	2 yrs + 1 yr compliance		
		With effect from	1 - 7 - 2019		
	Previous accreditation	No. of years accredited for	—		
		With effect from	—		

CAY: Current Academic Year
CAYm1: Current Academic Year minus 1= Current Assessment Year
CAYm2: Current Academic Year minus 2= Current Assessment Year minus 1

Consideration of Contractual Faculty means:
All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:

1. Shall have the AICTE prescribed qualifications and experience.
2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit.

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Explicit observations about the program

(Please use additional sheets if necessary to elaborate)

Program title P. G. Power System

Strengths:

1. - Space and civil infra to run all the program is sufficient and well maintained. Scope for the expansion.
2. - Good number of students are admitted
   - Success Rate is very good.
3. - SFR is very good and faculty are qualified.
   - Cadre Ratio is good, Support staff is good in number
4. - few Research papers are of high quality.
   - Department is running full time PhD Program.
5. - FDP and STTP attended by faculty are good in number

Weakness/Areas of improvement:

1. - Program curriculum, gap identification, action taken need to be improved.
   - Quality of internal/external examination, projects, assignment need improvement.
2. - Industry institute interaction is limited. Less industry participation.
   - Quality of Lab work and evaluation is a area of improvement.
3. - Overall OBE awareness and implementation is limited.
   - Process for PO attainment, Target setting, action taken is to be improved.
4. - Enrolment ratio through GATE, quality of placement need to be improved.
   - Professional chapter activities and involvement of student need to be improved.
5. - Publications, IPR, Sponsored research and consultancy need to be improved.
   - faculty outreach, state of the art Labs, research facilities and continuous improvement, action taken on last report need to be improved.
   - Interdisciplinary courses & research is limited.

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Deficiencies:

1. - No industry Supported Lab
   - No Centre of Excellence
2. - No Entrepreneurship.
   - No student is working on Industry Supported project.
3. - Hardware projects (in new areas) are very less.
   - No external academic audit
4.
5.

Other Observations, if any:

1. • Some equipments are very old and out of order
   • Space can be effectively utilized so as to offer
2. seperate cabin to faculty.
3.
4.
5.

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Department/Programme Specific Criteria:

S. No.	Criteria	Max. Marks	Marks Awarded	Remarks
1.	Program Curriculum and Teaching-Learning Processes	125	71	
2.	Program Outcomes and Course Outcomes	75	48	
3.	Students' Performance	75	51	
4.	Faculty Contributions	75	47	
5.	Laboratories and Research Facilities	75	59	
6.	Continuous Improvement	75	44	
	TOTAL	500	320	

18/03/2023

Signature
(Program Evaluator 1)

Dr. Sanjay S. Dambhare
COEP Tech. University.
PUNE

18/3/2023

Signature
(Program Evaluator 2)

Dr. Manjaree Pandit
Professor, Dept of EE
MITS, Gwalior 474005

Declaration of Conformity with evaluator's report by the Team Chair

I agree with the observations of the program evaluators on each criterion. ☑

Or

I agree with most of the observations of the program evaluators. However, I have following comments to make on certain criteria:

Criteria	Comments

Signature
(Chairperson)

Dr. S. MOHAN
Institute Chair Professor &
Professor of Civil Engineering
Environmental and Water Resources Engineering
Department of Civil Engineering
Indian Institute of Technology Madras
Chennai - 600 036.

Part B-Program Assessment Worksheet
Program Level Criteria - To be Assessed by Evalutaor

Date of visit - 17-19th March

Name of the Institution Government Engineering College, Thrissur, Kerala-680009
Name of the Program P.G. Power System

Criterion 1: Program Curriculum and Teaching – Learning Processes (125)							
S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	
1.1.	Program Curriculum	35					
1.1.1.	State the process for designing the program curriculum	10	Process used to demonstrate how the program curriculum is evolved and periodically reviewed considering the POs.				
1.1.2.	Structure of the Curriculum	5	Refer to SAR: Expectation in 1.1.2 & 1.1.3 is that the curriculum is well balanced structure & appropriate for a PG program. In 1.1.2 look at the entire curriculum in detail. It shall allow an evaluator to identify oddities (if any) at the individual course level.				
1.1.3.	State the components of the curriculum	10	Refer to SAR: Expectation in 1.1.2 & 1.1.3 is that the curriculum is well balanced structure & appropriate for a PG program. In 1.1.3 the evaluator can see the distribution of credits amongst different components. It allows him to decide if the curriculum is balanced			Overall Marks for 1.1	
1.1.4.	Overall quality and level of program curriculum	10	Overall Judgement of the experts. The intent of this section is to arrive at a judgment on whether or the program can allow attainment of Program Outcomes. As such it relies heavily on the domain expertise of the Evaluator. He alone can decide if the program, as given, is capable of leading to PO attainment. Were the POs actually attained is to be determined in a later section.				

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

In case of affiliated institutions marks will be on content beyond to cover the gaps; if any from the POs attainment perspective. It will also include the weightage on efforts put in to cover the gaps. The marks distribution will be as given below:

1.1.	Program Curriculum	35					
1.1.1.	Process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes	10		7	7	Overall Marks for 1.1	• limited processes to identify extent of compliance • limited efforts for gap identification & limited action taken to bridge the gap. • High weightage is to core power system courses. (traditional)
1.1.2.	Appropriateness of the gaps identified	5		3	3	23	
1.1.3.	Actions taken to bridge the gap	10		6	6		
1.1.4.	Overall quality and level of program curriculum	10		7	7		

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.

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(Dr. Manjaree Pandit)

18/3/2023
Dr Sanjaya S. Dambhare
COEP-Tech. University, PUNE

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
1.2.	Teaching-Learning Processes	90					
1.2.1.	Quality of end semester examination, internal semester question papers, assignments and evaluation	20	A. Process for end semester examination, internal semester question paper setting, evaluation and effective process implementation (3)	2	11		• Quality of Internal, end Semester question paper and assignments is low.
			B. Process to ensure questions from outcomes/learning levels perspective (3)	2			• Most questions are mapping with LOTs (lower level thinking skills)
			C. Evidence of COs coverage in class tests/ Mid term tests. (7)	3			• Overall quality of projects is not upto the marks
			D. Quality of Assignment and its relevance to COs (7)	4			• Most projects are on Power system computation and are simulation based.
1.2.2.	Quality of student projects	30	A. Very clear and concise objectives (5)	3	16		• No industry supported projects.
			B. Very clear methodology, articulated using technical terms indicating all steps and tools (5)	3			• No industry supported Labs
			C. Cites substantial current and good quality literature (4)	2			• Overall industry institute interaction is weak.
			D. Clarity in design/setting up of experiment (4)	2			• Participation of industry is less.
			E. Benchmarks used / Assumptions made (4)	2			
			F. Interpretation of results and justification thereof and validity of the results presented (4)	2			
			G. Overall presentation of the report (4)	2			
1.2.3.	Initiatives related to industry interaction including industry internship/summer training	10	A. Industry supported laboratories (2)	00	4	Overall Marks for 1.2 48	
			B. Industry involvement in partial delivery of any regular courses for students (1)	0.5			
			C. Impact analysis of industry institute interaction and actions taken thereof (1)	0.5			
			D. Industrial training/tours for students (1)	01			
			E. Industrial /internship /summer training of more than two weeks and post training Assessment (2)	1			
			F. Impact analysis of industrial training (1)	0.5			
			G. Student feedback on initiative (2)	0.5			
1.2.4.	Participation of Industry professionals in curriculum development, as examiners, in major projects	10	Documentary Evidence	5	5		
1.2.5.	Quality of laboratory work given	20	Qualitative judgement of the experts. Are the experiments so well structured that these can be done by simply following the given set of instructions?" One may not learn much in that case. Usefulness of laboratory work can be better evaluated by the amount of thought effort a student is required to put in to complete the tasks. In that case learning can happen and POs can be attained.	12	12		• Title of expt, Lab records are not well written. • Overall quality of Lab work and usefulness is not upto the marks. • Emphasis is on S/W, not on H/W
Total of Criterion 1:		125	Overall Marks and Grade for Criterion 1:			71	

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(Dr M. Pandit)

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Criterion 2: Program Outcomes and Course Outcomes (75)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
2.1.	Establish the connect between the courses and the POs	15	A. Evidence of COs being defined for every course (3)	3	11	Overall Marks for 2.1: 11	• Overall OBE awareness in stakeholders is limited • Mapping matrix correlation is less in some cases
			B. Availability of COs embedded in the syllabi (3)	3			
			C. Explanation of Course Articulation Matrix table to be ascertained (3)	2			
			D.Explanation of Program Articulation Matrix tables to be ascertained (6)	3			
2.2.	Attainment of Program Outcomes	60				Overall Marks for 2.2: 37	• Quality/relevence of the tools and processes & the data collected – low. • documentary evidences of PO attainment – less.
2.2.1.	Describe the assessment tools and processes used to gather the data upon which the evaluation of Program Outcome is based	20	A. List of assessment tools & processes (10)	6	12		
			B. The quality/relevance of assessment tools/processes used (10)	6			
2.2.2.	POs attainment levels with observations	40	A. Verification of documents, results and level of attainment of each PO (30)	19	25		
			B. Overall levels of attainment (10)	6			
Total of Criterion 2:		75	Overall Marks and Grade for Criterion 2:			48	

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Criterion 3: Students' Performance (75)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
3.1.	Enrolment Ratio through GATE	20	A. >= 80% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year (20) B. >= 60% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(16) C. >= 50% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year (12) D. >= 40% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(8) E. >= 20% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(6) E. < 20 % students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(0)	06	06	Overall Marks for 3.1 06	CAY (2021-22) CAYm1 (2020-21) CAYm2 (19-20) 18 18 18 ← (N) 2 5 8 ← (M) Mention Numbers 0.111 0.278 (0.444) ← (ER) Avg Enr. Ratio = 0.278 @ 28%
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 S.I. for the last 3 batches Assessment points = 20 X Average S.I.	20	20	Overall Marks for 3.2 20	LYG LYGm1 LYGm2 18/18 17/17 15/14 Mention Numbers SI = 1.00, Evaluation = 20 × SI = 20
3.3.	Placement, Higher studies and Entrepreneurship	20	Assessment Points = 20 × average placement , i.e., (P1+P2+P3)/3 Placement Index (P) =[(x + y + z)/N]; where, x = Number of students placed in companies or Government sector y = Number of students pursuing Ph.D. / JRF/ SRF z = No. of students turned entrepreneur in engineering/technology N = Total number of students admitted in first year	14	14	Overall Marks for 3.3 14	LYG LYGm1 LYGm2 12 11 05 ← X 03 01 03 ← Y Mention Numbers 0 0 0 ← Z 15 12 8 ← X+Y+Z 0.833 0.706 0.571 Avg Placement = 0.703

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S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
3.4.	Professional Activities	15					
3.4.1.	Student's participation in Professional societies/chapters and organizing engineering events	5	A. Availability & activities of professional societies/chapters (3)	2.5	04	Overall Marks for 3.4 11	· Scope to improvement in quality & quantity.
			B. Number, quality of engineering events (organized at institute) Level- Institute/State/ National/ International Levels) (2)	1.5			
3.4.2.	Student's publications	10	A. Quality & Relevance of the contents and Print Material (3)	2	07		
			B. Participation of Students from the program (2)	2			
			C. List the publications along with the names of the authors and publishers, etc.(5)	03			
Total of Criterion 3:		75	Overall Marks and Grade for Criterion 3:			51	

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Criterion 4: Faculty Contributions (75)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
4.1.	Student-Faculty Ratio (SFR)	10	•Marks to be given proportionally from a maximum of 10 to a minimum of 05 for average SFR between 15:1 to 25:1, and zero for average SFR higher than 25:1. Marks distribution is given as below: < = 15-10 Marks < = 17-09 Marks < = 19-08 Marks < = 21-07 Marks < = 23- 06 Marks < = 25-05 Marks >25.0-0 Marks **Consideration of Contractual Faculty means:** All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty: 1.Shall have the AICTE prescribed qualifications and experience. 2.Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration. 3.Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit	10	10	Overall Marks for 4.1 10	CAY / CAYm1 / CAYm2 129 / 114 / 110 ← 4.1.1 114 / 110 / 110 ← 4.1.2 110 / 110 / 113 ← 4.1.3 363 / 334 / 333 ← UG1 18 / 18 / 18 ← PG1.1 18 / 18 / 18 ← PG1.2 36 / 36 / 36 ← PG1 18 / 18 / 18 ← PG2.1 18 / 18 / 18 ← PG2.2 36 / 36 / 36 ← PG2 425 / 406 / 405 ← Total Count F1=32 / F2=29 / F3=32 13.28 / 14 / 12.67 ← SFR Avg SFR = 13.32 (Excluding FY faculty) Percentage of regular faculty is above 9
4.2.	**Faculty competencies in the area of Program Specialization**	30				Overall Marks for 4.2. 21	• Qualified faculty in domain a • Scope to improve in IPR & other developmental work. • Around 16 publications in assessment peri
4.2.1.	Faculty competency in the domain area.	10		08	21		
4.2.2	Faculty Research Publication	10		07			
4.2.3.	Faculty Development work	10		06			
4.3.	**Faculty as participants in Faculty development /training activities /STTPs**	5	Relevance of Training Program	4	4	Overall Marks for 4.3.4	• Good in number but mostly online. Total FDP attended Count = 142

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S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
4.4.	Research and Development	30					
4.4.1.	Sponsored Research	15	Funded research from outside; Cumulative for CAYm1, CAYm2 and CAY m3: Amount >50Lacs 15 Marks, Amount >40 and <50Lacs - 10 Marks, Amount >30 and <40Lacs - 5 Marks, Amount>15and <30Lacs - 2 Marks, Amount< 15 Lacs - 0 Mark	10	10	Overall Marks for 4.4. 12	. Three AICTE projects, amounting to 43.1 Lakh. Mention numbers
4.4.2.	Consultancy (From Industry)	15	Consultancy; Cumulative for CAYm1, CAYm2 and CAY m3: 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 Mark	2	2		. Total consultancy amount is Rs 2.18 Lakh during assessment period by only one faculty.
Total of Criterion 4:		75	Overall Marks and Grade for Criterion 4:			47	

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Criterion 5: Laboratories and Research Facilities (75)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
5.1.	Adequate and well equipped laboratories in area of Program specialization	30	A. Adequate well-equipped laboratories to run all the program-specific curriculum (20)	18	28	Overall Marks for 28	• Labs are well-equipped but limited state of the art facilities • Very good number of supporting staff
			B. Availability of adequate and qualified technical supporting staff (10)	10			
5.2.	Research facilities / center of excellence	30		20	20	Overall Marks for 20	• Limited Research facilities
5.3.	Access to laboratory facilities, training in the use of equipment	15		11	11	Overall Marks for 11	• Access to labs beyond working hours is limited.
Total of Criterion 5:		75	Overall Marks and Grade for Criterion 5:			59	

Criterion 6: Continuous Improvement (75)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
6.1.	Actions taken based on the results of evaluation of each of the POs	25	A. Documentary Evidence of POs attainment levels (10)	7	16	Overall Marks for 16	• Limited efforts on gaps identification & action plan.
			B. Identification of gaps/shortfalls (5)	3			
			C. Plan of action to bridge the gap and its Implementation (10)	6			
6.2.	Improvement in quality of projects	10		6	6	Overall Marks for 6	• Limited improvement in quality of projects
6.3.	Improvement in Placement, Higher Studies and Entrepreneurship	10	A. Improvement in Placements numbers, quality, core hiring industry and pay packages (5)	3	5	Overall Marks for 5	• Limited improvement in Placement & Higher studies. • No Entrepreneurship
			B. improvement in Higher Studies admissions for pursuing PhD. in premier institutions (3)	2			
			C. Improvement in number of Entrepreneurs (2)	00			
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	5	5	Overall Marks for 5	• Seats are filled but quality of students is not improved much
6.5.	Improvement in quality of paper publication	10		6	6	Overall Marks for 6	• Limited improvements in quality of papers.
6.6.	Improvement in laboratories	10		6	6	Overall Marks for 6	• Limited state of the art equipment.
Total of Criterion 6:		75	Overall Marks and Grade for Criterion 6			44	

M Pandit
18/3/2023
(Dr. Manjaree Pandit)
Professor, Department of EE
MITS Gwalior

18/3/2023
Dr. Sanjay S. Dambhare
COEP Tech. University
PUNE.

CSE

PART A

Evaluator's Visit Report

Postgraduate Engineering Program

Name of the Institution

Government Engineering College, Thrissur, Kerala - 680009

Name of the Program

PG - Computer Science & Engineering

Visit Dates

March 17-19, 2023

NATIONAL BOARD OF ACCREDITATION
NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg,
Pragati Vihar, New Delhi 110003
Tel: +91 112430620-22; 01124360654; www.nbaind.org

Bamwani

Rajpal 19.3.22

Program Evaluator Summary

Overview

The Expert team of National Board of Accreditation (NBA) conducted a three day accreditation visit from 17/3/ to 19/3/23 Govt Eng. college, Thrissur to evaluate PG Engineering program Computer Science & Engg.

Pre visit meeting of the expert team was held on at 17/3/2023 8:00 AM to exchange the respective findings with the evaluation team members, based on review of Self-Assessment Report (SAR) and the pre-visit evaluation reports.

During the visit, the visiting team met with Head of the Institution/Dean Dr Bindu G R
The briefing on the institution was given by Dr Bindu G R and on the program was given by the Dr. Shibily Joseph (Program Coordinator) The respective program evaluators also visited the various facilities of the program. Apart from comprehensive review of documental evidences pertaining to various accreditation criteria, the visiting team also held meeting and discussions with the following stakeholders (kindly tick).

Faculty	☑	Alumni	☐
Employers	☐	Parents	☐
Staff members	☑	Students	☑

The Program Evaluation Team found that (general findings about the program to be mentioned)
The college is well established, good building infrastructure with classrooms & labs. They have highly qualified & experienced faculty with good cadre ratio. Quality of student projects and theory, lab assignments is satisfactory. OBE practices are adopted & implemented at institute level. However, quality of research publications need improvement. OBE practices to be further strengthened for quality improvement. The faculty need to have more industry interaction in the form of projects and lab development. The sponsored research projects and consultancy is a weak area.

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19.3.22

Program Details

Name of the Program M.Tech (Computer Sc. & Engg.)					
Year of Commencement	2011	PG - Computer Science & Engineering			
Student	Year	Sanctioned Intake		Actual Admitted	
	CAY (2021 - 2022)	18		18	
	CAY m1 (2020 - 2021)	18		18	
	CAY m2 (2019 - 2020)	18		18	
	Total Students in the Programme 1st & 2nd Year	36			
	Averaged for CAY, CAYm1 and CAYm2	18			
Faculty (Attach a Copy of faculty list compared with Time Table)	Regular		CAY(21-22)	CAYm1	CAYm2
		Professor	1	2	2
		Associate professor	7	7	7
		Assistant professor	6	6	6
	Contractual	Professor	0	0	0
		Associate professor	0	0	0
		Assistant professor	2	1	0
	No. of PhD. available in the dept.		5	6	3
	Student - Faculty ratio averaged over CAY, CAYm1 and CAYm2	CAY: $SFR_1 = \frac{248}{16} = 15.5$, CAYm1, $SFR_2 = \frac{240}{16} = 15$, $SFR_3 = \frac{241}{15} = 16.06$, Avg SFR = 15.52			
	Name of the faculty with the domain specific qualification for the program under consideration (List attached)		CAY	CAYm1	
		Professor (Professor without PhD)	0 (Zero)	2	
		Associate Professor	7	7	
Previous accreditation (if any)	First accreditation	No. of years accredited for	N.A.		
		With effect from	N.A.		
	Previous accreditation	No. of years accredited for	/		
		With effect from			

CAY: Current Academic Year

CAYm1: Current Academic Year minus 1= Current Assessment Year

CAYm2: Current Academic Year minus 2= Current Assessment Year minus 1

Consideration of Contractual Faculty means:

All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:

1. Shall have the AICTE prescribed qualifications and experience.
2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit.

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Explicit observations about the program

(Please use additional sheets if necessary to elaborate)

Program title PG - Computer Science & Engineering

Strengths:

1. Good building & lab infrastructure to support teaching-learning & projects
2. Good SFR, cadre ratio & retention
3. Modern syllabus with subjects on emerging technologies
4. Satisfactory placement record with improvement in average pay package
5. Success rate of PG students is good

Weakness/Areas of improvement:

1. Quality of theory & lab assignments, Test papers need improvement
2. Quality of project reports need improvement
3. Quality of projects can be improved with industry association as well as emphasis on research
4. Syllabii of few subjects need substantial revision
5. Quality of research papers published by faculty need major improvement
6. OBE practices need to be strengthened for overall qualitative improvement

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19.3.22

Deficiencies:

1. No research projects by faculty
2. Limited consultancy projects
3. Research facilities need to be strengthened
4. Enrolment through GATE is decreasing
5.

Other Observations, if any:

1. faculty members should be encouraged to publish research papers in reputed
2. journals on regular basis
3.
4.
5.

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EVALUATION CRITERIA

AWARD OF ACCREDITATION FOR THE PG ENGINEERING PROGRAMS

Accreditation for 6 years:

i. Program should score greater than or equal to 375 with 60 per cent in each criteria.
ii. 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).
iii. 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).
iv. 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).

Accreditation for 3 years:

i. Program should score greater than or equal to 300 with 50 per cent in Criterion–IV (Faculty Contribution).
ii. Corresponding UG Program should be accredited by NBA.
iii. In case of Tier I, the corresponding UG Engineering program should have been granted with at least 3 Compliances (Y) for the SAR with 9 criteria and 4 Compliances (Y) for the SAR with 10 criteria or In case of Tier II, the corresponding UG Engineering program should have been granted with at least 650 marks out of 1000.
iv. 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).
v. 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).
vi. 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)

No Accreditation

If the program fails to meet the criteria for award of accreditation for three years, it is awarded "Not Accredited" Status

Department/Programme Specific Criteria:

S. No.	Criteria	Max. Marks	Marks Awarded	Remarks
1.	Program Curriculum and Teaching-Learning Processes	125	81	
2.	Program Outcomes and Course Outcomes	75	51	
3.	Students' Performance	75	50	
4.	Faculty Contributions	75	38	
5.	Laboratories and Research Facilities	75	51	
6.	Continuous Improvement	75	48	
	TOTAL	500	319	

Tanwani

Signature
(Program Evaluator 1)

Cdr S Tanwani,
SCSIT, DAVV
Indore.

19.3.22

Signature
(Program Evaluator 2)

Declaration of Conformity with evaluator's report by the Team Chair

I agree with the observations of the program evaluators on each criterion. ☑

Or

I agree with most of the observations of the program evaluators. However, I have following comments to make on certain criteria:

Criteria	Comments

Signature
(Chairperson)

Dr. S. MOHAN
Institute Chair Professor &
Professor of Civil Engineering
Environmental and Water Resources Engineering
Department of Civil Engineering
Indian Institute of Technology Madras
Chennai - 600 036.

Criterion 2: Program Outcomes and Course Outcomes (75)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
2.1.	Establish the connect between the courses and the POs	15	A. Evidence of COs being defined for every course (3)	2	10	10 Overall Marks for 2.1	OBE practices, tools and processes adopted at Institute level.
			B. Availability of COs embedded in the syllabi (3)	2			
			C. Explanation of Course Articulation Matrix table to be ascertained (3)	2			
			D.Explanation of Program Articulation Matrix tables to be ascertained (6)	4			
2.2.	Attainment of Program Outcomes	60				Overall Marks for 2.2 41	OBE practices need to be strengthend for overall qualitative improvements.
2.2.1.	Describe the assessment tools and processes used to gather the data upon which the evaluation of Program Outcome is based	20	A. List of assessment tools & processes (10)	7	14		
			B. The quality/relevance of assessment tools/processes used (10)	7			
2.2.2.	POs attainment levels with observations	40	A. Verification of documents, results and level of attainment of each PO (30)	20	27		
			B. Overall levels of attainment (10)	7			
Total of Criterion 2:		75	Overall Marks and Grade for Criterion 2:			51	

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Criterion 3: Students Performance (75)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total	Marks	
3.1.	Enrolment Ratio through GATE	20	A. >= 80% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year (20) B. >= 60% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(16) C. >= 50% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year (12) D. >= 40% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(8) E. >= 20% students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(6) E. < 20 % students enrolled through GATE at the First Year Level on average basis during the last three years starting from current academic year(0)	6	6	Overall Marks for 3.1 6	CAY (21-22) N = Sanctioned Intake = 18 N1 = admitted through GATE = 1 ER1 = 5.56 CAYm1 N = 18, N1 = 8 ER2 = 44.44 CAYm2 N = 18, N1 = 10 ER3 = 55.56 Avg ER = 35.18 Mention Numbers
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 S.I. for the last 3 batches Assessment points = 20 X Average S.I.	19	19	Overall Marks for 3.2 19	LYG (2021-Passout): X = 18, Y = 17, SI1 = 0.94 LYG1: X = 18, Y = 17, SI2 = 0.94 LYG2: X = 18, Y = 18, SI3 = 1 Avg SI = 0.96, Assemt Points = 20 X 0.96 = 19.2 Mention Numbers
3.3.	Placement, Higher studies and Entrepreneurship	20	Assessment Points = 20 × average placement , i.e., (P1+P2+P3)/3 Placement Index (P) =[(x + y + z)/N]; where, x = Number of students placed in companies or Government sector y = Number of students pursuing Ph.D. / JRF/ SRF z = No. of students turned entrepreneur in engineering/technology N = Total number of students admitted in first year	13.67	14	Overall Marks for 3.3 14	CAY (21-22): X = 13, Y = 0, Z = 0, N = 18 PI1 = (X+Y+Z)/N = 0.72 CAYm1: X = 12, Y = 0, Z = 1 PI2 = 0.72 CAYm2: X = 9, Y = 0, Z = 0, N = 18 PI3 = 0.5 Avg PI = 0.683 Assessment Points = 20 X 0.683 = 13.67 Mention Numbers

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S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
3.4.	Professional Activities	15					
3.4.1.	Student's participation in Professional societies/chapters and organizing engineering events	5	A. Availability & activities of professional societies/chapters (3)	2	4	Overall Marks for 3.4 11	A. ISTE, IEEE, IEDC, Foss Cell - Chapters present B. Events: Around 50 (Avg / events, (5- State level, 2- National level, Good
			B. Number, quality of engineering events (organized at institute) Level- Institute/State/ National/ International Levels) (2)	2			
3.4.2.	Student's publications	10	A. Quality & Relevance of the contents and Print Material (3)	1	7		A. Fair B. Good C. Published papers in conference/Jour
			B. Participation of Students from the program (2)	2			
			C. List the publications along with the names of the authors and publishers, etc.(5)	4			
Total of Criterion 3:		75	Overall Marks and Grade for Criterion 3:			11	

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Criterion 4: Faculty Contributions (75)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
4.1.	Student-Faculty Ratio (SFR)	10	•Marks to be given proportionally from a maximum of 10 to a minimum of 05 for average SFR between 15:1 to 25:1, and zero for average SFR higher than 25:1. Marks distribution is given as below: < = 15-10 Marks < = 17-09 Marks < = 19-08 Marks < = 21-07 Marks < = 23- 06 Marks < = 25-05 Marks >25.0-0 Marks **Consideration of Contractual Faculty means:** All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty: 1.Shall have the AICTE prescribed qualifications and experience. 2.Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration. 3.Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit	9	9	Overall Marks for 4.1 9	CAY 21-22 $\frac{212+36}{16} = 15.5$ CAY 20-21 m1 $\frac{204+36}{16} = 15$ CAY 19-20 m2 $\frac{205+36}{15} = 16$ Avg SFR = 15.52
4.2.	Faculty competencies in the area of Program Specialization	30					
4.2.1.	Faculty competency in the domain area.	10		7	20	Overall Marks for 4.2 20	① 5 Ph.D's in respective specialisations ② Very few publications in SCI Journals Journal papers (15+7 SCI+others)
4.2.2	Faculty Research Publication	10		5			
4.2.3.	Faculty Development work	10		8			
4.3.	Faculty as participants in Faculty development /training activities /STTPs	5	Relevance of Training Program	4	4	Overall Marks for 4.3. 4	Conference = 48 ③ Organised 01 - conference 02 - FDPs Attended CAY = 12 CAY m1 = 27 CAY m2 = 18

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S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded		Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
				Marks	Total		
4.4.	Research and Development	30					
4.4.1.	Sponsored Research	15	Funded research from outside; Cumulative for CAYm1, CAYm2 and CAY m3: Amount >50Lacs 15 Marks, Amount >40 and <50Lacs - 10 Marks, Amount >30 and <40Lacs - 5 Marks, Amount>15and <30Lacs - 2 Marks, Amount< 15 Lacs - 0 Mark	0	0	Overall Marks for 4.4. 5	1. No Sponsored research Projects in the name of faculty members. Claims are there but evidence is not produced.
4.4.2.	Consultancy (From Industry)	15	Consultancy; Cumulative for CAYm1, CAYm2 and CAY m3: 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 Mark	5	5		Mention numbers 2. Consultancy claims are there but no sufficient evidence for all. However, Consultancy worth of total amount 4,35,922/- shown
Total of Criterion 4:		75	Overall Marks and Grade for Criterion 4:			38	

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Criterion 5: Laboratories and Research Facilities (75)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
5.1.	Adequate and well equipped laboratories in area of Program specialization	30	A. Adequate well-equipped laboratories to run all the program-specific curriculum (20)	16	24	Overall Marks for 5.1: 24	Adequate Lab infrastructure to support Teaching - Learning & Projects.
			B. Availability of adequate and qualified technical supporting staff (10)	8			
5.2.	Research facilities / center of excellence	30		15	15	Overall Marks for 5.2: 15	Research facilities needs to be Strengthed.
5.3.	Access to laboratory facilities, training in the use of equipment	15		12	12	Overall Marks for 5.3: 12	—
Total of Criterion 5:		75	Overall Marks and Grade for Criterion 5:			51	

Criterion 6: Continuous Improvement (75)

S.No.	Sub Criteria	Max. Marks	Evaluation Guidelines	Marks Awarded: Marks	Marks Awarded: Total	Overall Marks	Observations of Evaluators (Provide Justifications/ Reasons)
6.1.	Actions taken based on the results of evaluation of each of the POs	25	A. Documentary Evidence of POs attainment levels (10)	7	15	Overall Marks for 6.1: 15	OBE practices need to be Strengthed.
			B. Identification of gaps/shortfalls (5)	3			
			C. Plan of action to bridge the gap and its Implementation (10)	5			
6.2.	Improvement in quality of projects	10		7	7	Overall Marks for 6.2: 7	Needs more emphasis on research based projects.
6.3.	Improvement in Placement, Higher Studies and Entrepreneurship	10	A. Improvement in Placements numbers, quality, core hiring industry and pay packages (5)	3	5	Overall Marks for 6.3: 5	Avg. pay packages has increased. Marginal improvement in placements. Limited evidence for students pursuing higher studies & entrepreneurship.
			B. improvement in Higher Studies admissions for pursuing PhD. in premier institutions (3)	1			
			C. Improvement in number of Entrepreneurs (2)	1			
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	5	5	Overall Marks for 6.4: 5	No substantial improvement seen
6.5.	Improvement in quality of paper publication	10		8	8	Overall Marks for 6.5: 8	Many Students have presented papers in Conferences and few in Journals.
6.6.	Improvement in laboratories	10		8	8	Overall Marks for 6.6: 8	Institute has recently procured Latest configuration PCs/Laptopes.
Total of Criterion 6:		75	Overall Marks and Grade for Criterion 6			48	

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