NATIONAL BOARD OF ACCREDITATION

Data Capturing Points of the Program Applied for NBA Accreditation– Tier I/II UG (Engineering) Institute Programs

PART-A: Profile of the Institute

Name of the Program Applied for: Civil Engineering

A1: Name of the Institute: - KMEA ENGINEERING COLLEGE

Year of Establishment :2002 Location of the Institute: Kerala

A2: Institute Address: -

City :Ernakulam State : Kerala

Pin Code : 683561 Website:kmeacollege.ac.in

E-mail: principal@kmeacollege.ac.in Phone No (with STD Code): 0484-2411003

A3: Name and Address of the Affiliating University (If any): -

Name of the University: APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY City: Thiruvananthapuram

State : Kerala Pin Code: 695016

A4: Type of the Institution: - (Tick the applicable choice)

Institute of National Importance	☐	Deemed University	☐
University	☐	Autonomous	√
Non-Autonomous (Affiliated)	☐	Any other (Please specify) *	☐

Provide Details: UGC conferred autonomous status for a period of 5 years from the Academic year 2025-26 to 2029-30.

A5: Ownership Status: - (Tick the applicable choice)√

Central Government	☐	State Government	☐
Government Aided	☐	Self-financing	√
Any Other (Please specify) *	☐	***Provide Details:** _____	

A6: Details of all Programs being Offered by the Institution: -

- No. of UG programs: 8
- No. of PG programs: 6

Table No. A6.1: List of all programs offered by the Institute.

S.N.	Level of program (UG/PG)	Name of the program	Year of Start	Year of close*	Name of the Department
1	PG	Master of Computer Application	2024		Computer Science and Engineering
2	UG	Artificial Intelligence and Data Science	2024		Computer Science and Engineering
3	UG	Civil Engineering	2008		Civil Engineering
4	PG	Communication Engineering	2011		Electronics and Communication Engineering
5	PG	Computer Aided Structural Engineering	2012		Civil Engineering
6	PG	Computer Science and Engineering	2011		Computer Science and Engineering
7	UG	Computer Science and Engineering	2002		Computer Science and Engineering
8	UG	Electrical and Electronics Engineering	2009		Electrical and Electronics Engineering
9	UG	Electronics & Communication Engineering	2002		Electronics and Communication Engineering
10	PG	Industrial Engineering and Management	2024		Mechanical Engineering
11	UG	Mechanical Engineering	2010		Mechanical Engineering
12	PG	Power Electronics	2013		Electrical and Electronics Engineering
13	UG	Robotics and Automation	2023		Electronics and Communication Engineering
14	UG	Safety & Fire Engineering	2023		Safety and Fire Engineering

A7: Programs to be considered for Accreditation vide this Application:

Table No. A7.1: List of programs to be considered for accreditation.

Cluster ID.	Name of the Department	Name of the Program
1.	Electrical and Electronics Engineering	Electrical & Electronics Engineering
2.	Mechanical Engineering	Mechanical Engineering
3.	Computer Science and Engineering	Computer Science and Engineering
4.	Civil Engineering	Civil Engineering
5.	Electronics and Communication Engineering	Electronics and Communication Engineering

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.

Cluster ID.	Name of the Department (in table no. A7.1)	Name of allied Departments/Cluster (for table no. A7.1)

1.	Electronics and Communication Engineering	Robotics and Automation
2.	Computer Science and Engineering	Artificial Intelligence and Data Science

PART-B: Program information

(Data to be filled in for the program applied for Accreditation)

B1: Provide the Required Information for the Program Applied For: -

Table No. B1: Program details.

S. N.	Program Name	Year of start	Sanctioned Intake	Increase/ decrease in intake, if any	Year of increase/ decrease	AICTE Approval Details	Accreditation Status*	No. of times program accredited
1.	Civil Engineering	2008	60	Yes	2023	36489993972/2023/EOA	Granted accreditation for 3 years for the period (2023-2026)	1

* Write applicable one:

- ❖ Applying first time
- ❖ Granted accreditation for 2/3 years for the period (specify period)
- ❖ Granted accreditation for 5/6 years for the period (specify period)
- ❖ Not accredited (specify visit dates, year).
- ❖ Withdrawn (specify visit dates, year)
- ❖ Not eligible for accreditation.

B2: Detail of Head of the Department for the program under consideration:

A. Name of the HoD : Dr. Biji Chinnamma Thomas

B. Nature of appointment: (Tick the applicable choice)

- ❖ **Regular** √
- ❖ **Contract**
- ❖ **Ad hoc**

C. Qualification: (Tick the applicable choice)

- ❖ **Ph.D.** √
- ❖ **ME/M.Tech**
- ❖ **Any other***

***Please provide details:** _____

B3: Program Details

Table No. B3.1: Admission details for the program excluding those admitted through multiple entry and exit points.

Item (Information is to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY	CAYm1	CAYm2	CAYm3	CAYm4 (LYG)	CAYm5 (LYGm1)	CAYm6 (LYGm2)
N= Sanctioned intake of the program (as per AICTE /Competent authority)	**60**	**60**	**60**	**90**	**90**	**90**	**120**
N1= Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	35	38	37	47	67	90	53
N2= Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	5	11	2	8	2	6
N3= Separate division if any	0	0	0	0	0	0	0
N4= Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	0	0	0	3	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	35	43	48	49	75	95	59

CAY= Current Academic Year.
CAYm1= Current Academic Year Minus 1
CAYm2= Current Academic Year Minus 2.
LYG= Last Year Graduate.
LYGm1= Last Year Graduate Minus 1.
LYGm2= Last Year Graduate Minus 2.

B4: Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.

Item (Students enrolled in the First Year on average over 3 academic years (CAY, CAYm1, and CAYm2))	CAY	CAYm1	CAYm2
N= Sanctioned intake of the program in the 1st year (as per AICTE/Competent authority)	60	60	60
N1= Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	35	38	37
N4= Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	0
Enrolment Ratio (ER)= (N1+N4)/N	58.33%	63.33%	61.67%
Average ER= (ER_1+ ER_2+ ER_3)/3	**61.11%**		

B5: Success Rate of the Students in the Stipulated Period of the Program

Table No.B5.1: The success rate in the stipulated period of a program.

Item	LYG	LYGm1	LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	98	92	126
B=No. of students who graduated from the program in the stipulated course duration	22	44	40
Success Rate (SR)= (B/A)*100	22.45	47.83	31.75
Average SR of three batches ((SR_1+SR_2+ SR_3)/3)	**34.01**		

Note *: If the value of A in Table No. B5.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of A in Table No.B5.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2) of Table No.B3.1.

B6: Academic Performance of the First-Year Students of the Program

Table No.B6.1: Academic Performance of the First-Year Students of the Program.

Academic Performance	CAYm1	CAYm2	CAYm3
X= (Mean of 1st year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 1st year/10)	6.99	6.54	7.06
Y= Total no. of successful students	8	10	13
Z = Total no. of students appeared in the examination	38	37	47
API = X* (Y/Z)	1.47	1.77	1.95
Average API = (API_1 + API_2 + API_3)/3	**1.73**		

B7: Academic Performance of the Second Year Students of the Program

Table No.B7.1: Academic Performance of the Second Year Students of the Program.

Academic Performance	CAYm1	CAYm2	CAYm3
X= (Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	6.94	7.06	6.83
Y= Total no. of successful students	14	12	26
Z =Total no. of students appeared in the examination	21	16	38
API = X* (Y/Z)	4.63	5.3	4.67
Average API = (API_1 + API_2 + API_3)/3	**4.87**		

B8: Academic Performance of the Third Year Students of the Program

Table No.B8.1: Academic Performance of the Third Year Students of the Program

Academic Performance	CAYm1	CAYm2	CAYm3
X= (Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.19	6.87	7.02
Y= Total no. of successful students	12	23	46
Z= Total no. of students appeared in the examination	12	26	46
API = X* (Y/Z)	7.19	6.08	7.02
Average API = (API_1 + API_2 + API_3)/3	**6.76**		

B9: Placement, Higher Studies, and Entrepreneurship

Table No.B9.1: Placement, higher studies, and entrepreneurship details.

Item	LYG	LYGm1	LYGm2
FS*=Total no. of final year students	98	92	126
X= No. of students placed	40	75	47
Y= No. of students admitted to higher studies	3	4	7
Z= No. of students taking up entrepreneurship	0	2	1
X + Y + Z =	43	81	55
Placement Index (P) = (((X + Y + Z)/FS) * 100)	43.88	88.04	43.65
Average placement index = (P_1 + P_2 + P_3)/3	**58.52**		

Note *: If the value of FS in Table No. B9.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of FS in Table No. B9.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2) of Table No.B3.1.

PART C: Faculty Details in Department and Allied Departments

(Data to be filled in for the Department and Allied Departments)

C1: Faculty details of Department and Allied Departments

Table No.C1: Faculty details in the Department for the past 3 years including CAY

S.N.	Name of the Faculty	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	If contractual mention Full time or (Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
1	Dr.Biji Chinnamma Thomas	PhD	National Institute of Technology Karnataka, Surathkal	Geotechnical Engineering	23/08/2022	3.3	Assistant Professor	Associate Professor	23/08/2024	Regular		Yes	
2	Dr. Sija Arun	PhD	SRM Institute of Science and Technology	Environmental Engineering	30/08/2022	3.3	Associate Professor	Professor	01/07/2025	Regular		Yes	
3	Bindu Sebastian	M.Tech	CUSAT	Construction Engineering and Management	01/10/2002	23.2	Lecturer	Associate Professor	01/10/2010	Regular		Yes	
4	Jinu V R	M.Tech	CUSAT	Computer Aided Structural Analysis and Design	02/07/2012	13.5	Assistant Professor	Assistant Professor		Regular		Yes	
5	Fathima S Thaikkudiyil	M.Tech	Mahatma Gandhi University	Computer Aided Structural Engineering	15/07/2013	12.5	Assistant Professor	Assistant Professor		Regular		Yes	
6	Fazna Nazim	M.Tech	Calicut University	Environmental Engineering	19/08/2013	12.4	Assistant Professor	Assistant Professor		Regular		Yes	

7	Lakshmy E G	M.Tech	Mahatma Gandhi University	Structural Engineering and Construction Management	11/02/2015	10.1	Assistant Professor	Assistant Professor		Regular		Yes	
8	Husaiba N M	M.Tech	Mahatma Gandhi University	Computer Aided Structural Engineering	11/02/2013	12.1	Lecturer	Assistant Professor		Regular		Yes	
9	Midhun Mohan	M.Tech	Anna University	Transportation Engineering	07/02/2017	8.1	Assistant Professor	Assistant Professor		Regular		Yes	
10	Amal J	M.Tech	APJ Abdul Kalam Technological University	Structural Engineering	01/11/2023	2.1	Assistant Professor	Assistant Professor		Regular		Yes	
11	Dr. Lekshmi Ashok	PhD	National Institute of Technology, Calicut	Environmental Engineering	8/7/2026	0.2	Assistant Professor	Assistant Professor		Regular		Yes	
12	Asika Johney	M.Tech	Cochin University of Science and Technology	Geotechnical Engineering	21/07/2026	0.2	Assistant Professor	Assistant Professor		Regular		Yes	
13	Muhammed Abid R	M.Tech	APJ Abdul Kalam Technological University	Computer Aided Structural Engineering	01/08/2026	0.1	Assistant Professor	Assistant Professor		Regular		Yes	
14	Sandhya Anand S.S	M.Tech	University of Kerala	Geotechnical Engineering	14/11/2022	3.1	Assistant Professor	Assistant Professor		Regular		No	30/5/2026
15	Dr. George K. George	Ph.D	Pondicherry University	Structural Engineering	02/02/2024	1.1	Assistant Professor	Assistant Professor		Regular		No	30/6/2026
16	Muhammed Ajmal	M.Tech	APJ Abdul Kalam Technological University	Structural Engineering and Construction Management	17/08/2020	4.1	Assistant Professor	Assistant Professor		Regular		No	10/07/2025

17	Ayishathu Noora Aslam	M.Tech	APJ Abdul Kalam Technological University	Structural Engineering and Construction Management	25/10/2023	1.1	Assistant Professor	Assistant Professor		Regular		No	19/12/2024
18	Jeevan K	M.Tech	National Institute of Technology Calicut	Environmental Geotechnology	04/03/2024	0.10	Assistant Professor	Assistant Professor		Regular		No	22/01/2025
19	Benoy Benjamin	M.Tech	APJ Abdul Kalam Technological University	Computer Aided Structural Engineering	30/12/2020	3.4	Assistant Professor	Assistant Professor		Regular		No	28/05/2024
20	Rajeena K K	M.Tech	APJ Abdul Kalam Technological University	Structural Engineering and Construction Management	11/10/2021	2.6	Assistant Professor	Assistant Professor		Regular		No	30/04/2024
21	Lakshmi S Anil	M.Tech	APJ Abdul Kalam Technological University	Computer Aided Structural Engineering	04/04/2022	1.7	Assistant Professor	Assistant Professor		Regular		No	03/11/2023
22	Sreerekha K	M.Tech	APJ Abdul Kalam Technological University	Structural Engineering and Construction Management	11/04/2022	1.8	Assistant Professor	Assistant Professor		Regular		No	05/01/2024
23	Dr.Daniel Paul	Ph.D	Karunya Institue of Technology and Sciences	Structural Engineering	30/12/2021	1.11	Assistant Professor	Assistant Professor		Regular		No	21/12/2023
24	Soni Syed	M.Tech	CUSAT	Computer Aided Structural Analysis and Design	03/10/2008	15.7	Lecturer	Assistant Professor		Regular		No	30/04/2024
25	Dr. Megha Mohan	Ph.D	National Institute of Technology Calicut	Environmental Engineering	17/12/2025	0.6	Assistant Professor	Assistant Professor		Regular		No	30/6/2026

C2: Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UG_n):

UG_1=1st UG program UG_n=nth UG program
B= No. of Students in UG 2nd year (**ST**)
C= No. of Students in UG 3rd year (**ST**)
D= No. of Students in UG 4th year (**ST)**

PG1=1st PG program.

- PGm=mth PG program
- **A=** No. of Students in PG 1st year
- **B=** No. of Students in PG 2nd year

- Student Faculty Ratio (**SFR**) = S/F
  - **S**= No. of students of all programs in the Department including all students of allied departments/clusters.
  - **No. of students (ST)=**Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)
  - Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are **exempted**.
  - **F**=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

Table No.C2.1: Student-faculty ratio.

Year	CAY	CAYm1	CAYm2
UG1. B	65	66	92
UG1. C	66	92	98
UG1. D	92	98	92
UG1	**223**	**256**	**282**
PG1. A	12	12	18
PG1. B	12	18	18
PG1	24	30	36
DS=Total no. of students in all UG and PG programs in the Department	247	286	318
S=Total no. of students in the Department (DS) and allied departments (AS)	**247**	**286**	**318**
DF=Total no. of faculty members in the Department	12	13	14
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	12	13	14
FF=The faculty members in F who have a 100% teaching load in the first-year courses	1	1	1
Student Faculty Ratio (SFR)=S/(F-FF)	**22.45**	**23.83**	**24.46**
Average SFR for 3 years	**23.58**		

C3: Faculty Qualification

- Faculty qualification index (FQI) = 2.5 * [(10X +4Y)/RF] where
  - X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms.
  - Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/ UGC norms.
  - RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section C2 of this documents: (RF=S/20).

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQI= 2.5 * [(10X +4Y)/RF]
CAY	3	9	12	13.75
CAYm1	3	10	14	12.50
CAYm2	2	12	15	11.33

C4: Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
  - RF1= No. of Professors required = 1/9 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents:.
  - RF2= No. of Associate Professors required = 2/9 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.
  - RF3= No. of Assistant Professors required = 6/9 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.
- Faculty cadre and qualification and experience should be as per AICTE/UGC norms.

Table No.C4.1: Faculty cadre proportion details.

Year	Professors		Associate Professors		Assistant Professors	
	Required Faculty(RF1)	Available Faculty(AF1)	Required Faculty(RF2)	Available Faculty(AF2)	Required Faculty(RF3)	Available Faculty(AF3)
CAY	1	1	2	1	8	10
CAYm1	1	0	3	2	9	11
CAYm2	1	0	3	1	10	13
Average Numbers	RF1=1	AF1=0.33	RF2=2.67	AF2=1.33	RF3=9	AF3=11.33

C5: Visiting/Adjunct Faculty/Professor of Practice

Table No.C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

S.N.	Name of the Person	Designation & Organization	Name of the Course	No. of hours handled
CAYm1				
1	Dr. Rameesha T V	Scientist B, Water Transport & GIS Division, National Transportation Planning and Research Centre (NATPAC)	CET468 CLIMATE CHANGE & SUSTAINABILITY	15
2	Ms. Tressa	Team Leader, Training Division, InterCAD Systems Pvt. Ltd	PCCEL208 Civil Engineering Drafting Lab	35
			Total no. of hours:	50
CAYm2				
1	Mr. Sunil Paul	Visiting Faculty, KMEA Engineering College	3D Printing Concrete Workshop	6

2	Mr. Sijo Jose	Director, CAD Campus,	CEL334 Civil Engineering Software Lab	35
			Total no. of hours:	41

CAYm3				
1	…			

C6: Academic Research

Table No. C6.1: Faculty publication details.

S.N.	Item	CAYm1	CAYm2	CAYm3
1	No. of peer reviewed journal papers published	5	2	9
2	No. of peer reviewed conference papers published	0	0	0
3	No. of books/book chapters published	1	0	1

C7: Sponsored Research Project

Table No. C7.1: List of sponsored research projects received from external agencies.

S. N.	PI name	Co-PI Names if any	Name of the Dept., Where project is sanctioned	Project title*	Name of the Funding agency	Duration of the project	Amount (Lacs)
CAYm1							
1	Dr. Biji Chinnamma Thomas	Sandhya Anand S.S.	Department of Civil Engineering	Stabilization of Cochin Marine Soil Using Microbially Induced Calcite Precipitation (MICP) Technique	CERD Innovative Student Project Fund, APJ Abdul Kalam Technological University	1 Year	0.32
Amount received (Rs.)							0.32
CAYm2							
…							….
Amount received (Rs.)							
CAYm3							
1	Mr. Benoy Benjamin	Dr. Sija Arun	Department of Civil Engineering	Sustainable Urban Development and Public Transport	APJ Abdul Kalam Technological University	3 days	1.5
2	Dr. Chithra V.S.	Fathima Asna	Department of Civil Engineering	I Bin	Software Technology Park of India	3 Years	0.9
Amount received (Rs.)							2.4
Total Amount (Lacs) Received for the Past 3 Years							2.72

C8: Consultancy Work

Table No. C8.1: List of consultancy projects received from external agencies.

S.N.	PI name	Co-PI names, if any	Name of the Dept., where project is sanctioned	Project title*	Name of the Funding agency	Duration of the project	Amount (Lacs)
CAYm1							
1	Midhun Mohan		Department of Civil Engineering	Cube Testing	Budget Home Engineers	1 day	0.01
Amount received (Rs.)							0.01
CAYm2							
1	Midhun Mohan		Department of Civil Engineering	Performance Evaluation of Kochi Water Metro Survey	NATPAC	1 Week	0.93
2	Midhun Mohan		Department of Civil Engineering	Cube Testing	AJL Homes Builders and Developers	1 Day	0.01
Amount received (Rs.)							0.94
CAYm3							
1	Midhun Mohan		Department of Civil Engineering	Development of Parking Policy Framework for Kerala	NATPAC	1 Week	0.19
2	Midhun Mohan		Department of Civil Engineering	Road Safety Improvement works of Kerala under World Bank assisted Challenge Fund	NATPAC	1 Week	0.41
3	Midhun Mohan		Department of Civil Engineering	Performance Evaluation of Kochi Water Metro Survey	NATPAC	1 Week	0.24
4	Midhun Mohan		Department of Civil Engineering	Angamli-Erumeli Sabari Rail Project	NATPAC	1 Week	0.21
5	Midhun Mohan		Department of Civil Engineering	Cube Testing	AJL Homes Builders and Developers	1 Day	0.01
Amount received (Rs.)							1.06
Total amount (Lacs) received for the past 3 years							2.01

C9: Institution Seed Money or Internal Research Grant to its Faculty for Research Work

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.

S.N.	Faculty name	Project title/ Support for Activity	Duration	Amount (Lacs)	Amount Utilized (Lacs)	Outcomes of the project
CAYm1						
..						
Amount received (Rs.)						
CAYm2						
..						
Amount received (Rs.)						
CAYm3						
..						
Amount received (Rs.)						
Total amount (Lacs) received for the past 3 years						

PART-D: Laboratory Infrastructure in the Department

(Data to be filled in for the Department).

D1: Adequate and Well-Equipped Laboratories, and Technical Manpower

Table No.D1.1: List of laboratories and technical manpower.

Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
				Name of the technical staff	Designation	Qualification
Material Testing Lab-I	4	UTM dual model (40T) Izod/Charpy impact testing machine Fatigue testing machine rotating type of 20mm with digital counter Deflection test apparatus Maxwell theorem (Floor type) Torsion testing machine 100Nm Spring testing machine 250 kg Brinell hardness testing machine. Vickers hardness testing machine. Torsion pendulum with wall bracket and one number torsion wire steel	15 hrs	Ms. Ajimol P.V	Lab Instructor	Diploma

		wire				
Material Testing Lab-II	4	Le-Chatlier's Apparatus, Vicat Apparatus, Compression testing machine, Sieve Shaker, Flexural Strength testing machine, Tile Flexural testing machine Concrete Mixer Vee Bee Consistometer	12 hrs	Ms. Ajimol P V	Lab Instructor	Diploma
Geotechnical Engineering Lab	4	Electric Oven UCS Testing machine Sieve shaker Direct shear testing machine. Consolidometer Automatic compactor Casagrande's apparatus	12 hrs	Ms. Najuma P Nazar	Lab Instructor	B-Tech
Transportation Engineering Lab	4	Aggregate Impact Test Apparatus Los Angeles Apparatus Penetration Testing Machine Ductility Apparatus Ring and Ball Apparatus Flash and Fire Point Apparatus Viscosity Test Apparatus Marshall Stability Apparatus California Bearing Ratio Apparatus Bitumen Extractor Marshall Compaction Apparatus Shape Test Apparatus	12 hrs	Ms. Najuma P Nazar	Lab Instructor	B- Tech
Environmental Engineering Lab	4	BOD Incubator Hot air oven Flocculator Spectrophotometer Water still with water level cut off Autoclave	12 hrs	Ms. Alfiya Asees	Lab Instructor	B-Tech
Computer Applications Lab	1	Softwares- Auto CAD, STAAD, ANSYS, Primavera, REVIT, SketchUp	19 hrs	Ms. Alfiya Asees	Lab Instructor	B-Tech
Surveying Lab	4	Theodolite Automatic Dumpy Level Prismatic Compass Total Station	6 hrs	Ms. Anjaly V.S.	Lab Instructor	Diploma

Civil Engineering Workshop	4	Dumpy level, screw gauge, vernier caliper, water level	10 hrs	Ms. Anjaly V.S	Lab Instructor	Diploma

D2: `Safety Measures in Laboratories

Table No. D2.1: List of various safety measures in laboratories.

S. N.	Name of the Laboratory	Safety measures
1	**Material testing LAB 1**	1.Do not stand very close to experimental setup, maintain safe distance. 2.Do not disturb standard setup of experiment, as accuracy might change. 3.Do not operate machinery unless you have received instruction on their correct usage. 4.Closed toed shoes must be worn at all times in active laboratory areas. Avoid bulky, loose or trailing clothes. 5.Remove all kinds of loose jewellery. 6.Long hair shall be confined. Keep fingers, hands and arms out of " pinch points " in the load assembly. 7.Immediately report any equipment malfunctions, injuries or other perceived safety hazards to your instructor or Faculty.
2	**Material testing LAB 2**	1.Do not stand very close to experimental setup, maintain safe distance. 2.Do not disturb standard setup of experiment, as accuracy might change. 3.Do not operate machinery unless you have received instruction on their correct usage. 4.Closed toed shoes must be worn at all times in active laboratory areas. Avoid bulky, loose or trailing clothes. 5.Remove all kinds of loose jewellery. 6.Long hair shall be confined. Keep fingers, hands and arms out of " pinch points " in the load assembly. 7.Immediately report any equipment malfunctions, injuries or other perceived safety hazards to your instructor or Faculty.
3	**Transportation Engineering Lab**	1.Hot bitumen is a primary high temperature hazard in this laboratory, in case of a spill, rinse the affected skin under cold running water. 2.Do not disturb standard setup of experiment, as accuracy might change. 3.Do not operate machinery unless you have received instruction on their correct usage. Closed toed shoes must be worn at all times in active laboratory areas. 4.Avoid bulky, loose or trailing clothes. Remove all kinds of loose jewellery. Long hair shall be confined. 5.Keep fingers, hands and arms out of "pinch points" in the load assembly. 6.Immediately report any equipment malfunctions, injuries or other perceived safety hazards to your instructor or Faculty.
4	**Geotechnical Engineering Lab**	1.Safety instruction charts are displayed in all the laboratories. 2.Emergency and first aid kits are available. 3.Fire Extinguishers are available. 4.Students are instructed to wear protective clothing (lab coats & shoes). 5.Lab instructors periodically maintain all the equipment and keep them in safe operating condition. 6.All the required equipments are provided with fuses/ground to safeguard the equipment/users from power fluctuations/short circuit.
	Environmental Engineering Laboratory	1.Wear protective gloves while handling corrosive or hazardous chemicals. Gloves protect your hands, use the particular kind recommended for the job in hand. 2.Wipe up any reagent spills, liquid or powder as soon as they occur. Rinse the area

5		with a wet wipe/towel, then dry. 3.Chemical have to be stored in the alphabetical order in the shelf/racks, provided in the laboratory and anybody using these chemicals has to keep it in its original position. 4.Keep combustible materials and containers away from ignition sources such as hot pipes, heating equipments' electrical connections etc. Improper storage can promote heat evolution and explosion. 5.Store acid, bases, solvents etc separately in well-ventilated areas and away from volatile, organic and oxidizable materials. Use containers to store toxic chemicals only in areas of restricted access with special warnings. 6.Do not store, handle or consume food or drinks, in storage areas, refrigerator or glass wares and utensils that are also used for laboratory operations.
6	**Surveying Lab**	1.Follow the instructions of the Faculty/Lab Instructor at all times. 2.Do not handle instruments without permission. 3.Students should be aware of the fire exits and the location of the labs fire extinguishers. 4.Wear shoes while surveying in field. 5.Keep bags and coats in the designated area as they can cause people to trip if they are simply lying around the room. 6.Report damaged or malfunctioning equipment immediately.
7	**Civil Engineering workshop**	1.Safety instruction charts are displayed in all the laboratories 2.Emergency and first aid kits are available 3.Fire Extinguishers are available 4.Students are instructed to wear protective clothing (lab coats & shoes) 5.Lab instructors periodically maintain all the tools/instrument and keep them in usable condition.
8	**Computer Applications Lab**	1.Safety instruction chart is displayed in the laboratory. 2.Emergency and first aid kit is available. 3.Fire Extinguisher is available. 4.Lab instructors periodically maintain all the PC and keep them in good operating condition. 5.All the systems are provided with fuses/ground to safeguard the computers/users from power fluctuations/short circuit.

D3: Project Laboratory/Research Laboratory

Table No. D3.1: List of project laboratory/research laboratory /Centre of Excellence.

S.N.	Name of the Laboratory
1.	Environmental Research lab
2	Computing Techniques and Application Laboratory
3	Material Testing Project Laboratory
4	Geotechnical & Transportation Engineering Project Laboratory
5	Electronic Incubation Centre

PART E: First Year faculty and financial Resources.
(Data to be filled in for the first year course faculty and budget allocation and utilization)

E1: First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) +(NS2*0.2))/(No. of required faculty (RF4)); Percentage=((NS1*0.8)+ (NS2*0.2))/RF4
2025-26 (CAY)	480	24	18	36	90
2024-25 (CAYm1)	390	20	14	36	92
2024-23 (CAYm2)	360	18	13	28	89

E2: Budget Allocation, Utilization, and Public Accounting at Institute Level

Table No. E2.1: Budget and actual expenditure incurred at Institute level.

Items	Budgeted in CFY	Actual expenses in CFY (till ...)	Budgeted in CFYm1	Actual Expenses in CFYm1	Budgeted in CFYm2	Actual Expenses in CFYm2	Budgeted in CFYm3	Actual Expenses in CFYm3
Infrastructure Built-Up	8440000	1674318	8520000	8964668	15500000	12737638	1930500	2394813
Library	1838000	132062	910000	816463	1500000	931933	2572500	1415076
Laboratory equipment	6214000	1375218	228000	157247	5263000	4924895	1440000	3881504
Teaching and non-teaching staff salary	55000000	38447814	54000000	53519813	50650000	50182658	50650000	49203095
Outreach Programs	200000	35785	100000	0	0	0	0	0
R&D	500000	0	523000	122870	137500	31586	0	0
Training, Placement and Industry linkage	300000	153636	2317000	315884	800000	618253	600000	508494
SDGs	18000000	16875688	3120000	518413	1500000	110000	2900000	0
Entrepreneurship	500000	64719	0	0	0	0	0	0
Others*, pls. specify	14000000	11034383	8684000	13850498	1029500	9623785	18091000	11346890
Total amount	**104992000**	**69793623**	**78402000**	**78265856**	**76380000**	**79160748**	**78184000**	**68749872**

E3: Budget Allocation, Utilization, and Public Accounting at Program Specific Level Table

No. E3.1: Budget and actual expenditure incurred at program level.

Items	Budgeted in CFY	Actual expenses in CFY (till ...)	Budgeted in CFY*m*1	Actual Expenses in CFY*m*1	Budgeted in CFY*m*2	Actual Expenses in CFY*m*2	Budgeted in CFY*m*3	Actual Expenses in CFY*m*3
Laboratory equipment	524000	54144	240000	12319	140000	12390	220000	179000
Software	100000	56640	100000	0	0	0	100000	118000
SDGs	200000	76000	180000	170800	300000	266500	300000	285144
Support for faculty development	50000	39549	165000	0	50000	0	36000	92136
R & D	0	0	38000	0	10000	0	20000	0
Industrial Training, Industry expert, Internship	85000	0	105000	2000	80000	609208	58000	113668
Miscellaneous expenses *	131500	0	122000	59023	135000	59989	136000	110647
Total amount	**1090500**	**226333**	**950000**	**244142**	**715000**	**948087**	**870000**	**898595**