

**NATIONAL BOARD OF ACCREDITATION**

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

<b>Program Name</b> : Civil Engineering	<b>Discipline</b> : Engineering & Technology
<b>Level</b> : Under Graduate	<b>Tier</b> : 2
<b>Application No</b> : 11495	<b>Date of Submission</b> : 27-01-2026

**PART A- Profile of the Institute**

<b>A1.Name of the Institute</b> : SCMS School of Engineering & Technology	
Year of Establishment : 2001	Location of the Institute: Palissery
<b>A2. Institute Address</b> :SCMS School of Engineering and Technology Vidya Nagar, Palissery, Karukutty, Ernakulam - 683 576 Kerala.	
City:Ernakulam	State:Kerala
Pin Code:683576	Website:www.scmsgroup.org
Email:sset@scmsgroup.org	Phone No(with STD Code):0484-2882901
<b>A3. Name and Address of the Affiliating University (if any)</b> :	
Name of the University : A P J Abdul Kalam Technological University	City: Thiruvananthapuram
State : Kerala	Pin Code: 695016
<b>A4. Type of the Institution</b> : Any Other(Please Specify)	
<b>A5. Ownership Status</b> : Self financing	

**A6. Details of all Programs being Offered by the Institution:**

- No. of UG programs: **10**
- No. of PG programs: **7**

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Computer Application	PG	Master in Computer Applications	2006	--	Computer Science and Engineering
2	Engineering & Technology	UG	Automobile Engineering	2004	--	Automobile Engineering
3	Engineering & Technology	UG	CIVIL AND ENVIRONMENTAL ENGINEERING	2021	2023	Civil Engineering
4	Engineering & Technology	UG	Civil Engineering	2001	--	Civil Engineering
5	Engineering & Technology	PG	Communication Engineering	2013	2023	Electronics and Communication Engineering
6	Engineering & Technology	PG	Computer Aided Structural Engineering	2009	--	Civil Engineering
7	Engineering & Technology	UG	Computer Science and Engineering	2001	--	Computer Science and Engineering
8	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence)	2022	--	Artificial Intelligence and Data Science

9	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2021	--	Artificial Intelligence and Data Science
10	Engineering & Technology	PG	Computer Science and Information System	2012	2025	Computer Science and Engineering
11	Engineering & Technology	UG	Electrical and Electronics Engineering	2002	--	Electrical and Electronics Engineering
12	Engineering & Technology	UG	Electronics & Communication Engineering	2001	--	Electronics and Communication Engineering
13	Engineering & Technology	UG	Electronics Engineering (VLSI Design and Technology)	2023	--	Electronics and Communication Engineering
14	Engineering & Technology	PG	Environmental Engineering	2013	--	Civil Engineering
15	Engineering & Technology	UG	Mechanical Engineering	2001	--	Mechanical Engineering
16	Engineering & Technology	PG	Production and Industrial Engineering	2011	2025	Mechanical Engineering
17	Engineering & Technology	PG	VLSI & Embedded Systems	2012	2025	Electronics and Communication Engineering

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

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

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Civil Engineering	No	Civil Engineering	UG
Mechanical Engineering	Yes	Mechanical Engineering	UG
Automobile Engineering	Yes	Automobile Engineering	UG
Computer Science and Engineering	Yes	Computer Science and Engineering	UG

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)

No Record
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**PART-B: Program information****B1. Provide the Required Information for the Program Applied For:**

Table No. B1: Program details.

## A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY APPROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED
1	Civil Engineering	UG	2001 / --	40	Yes	2023	30	2023	F.No.South-West/1-36445304927/2023/EOA	Granted accreditation for 3 years for the period (specify period)	2020	2026	2

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITE
<b>Sanctioned Intake for Last Five Years for the Environmental Engineering</b>													
<b>Academic Year</b>			<b>Sanctioned Intake</b>										
2025-26			30										
2024-25			30										
2023-24			30										
2022-23			60										
2021-22			90										
2020-21			120										

List of the Allied Departments/Cluster and Programs:

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

A. Name of the HoD :	Dr. Sanju Sreedharan
B. Nature of appointment:	Regular
C. Qualification:	M.Tech and Ph.D.

**B3. Program Details**

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	30	30	30	60	90	120	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	17	11	11	15	18	57	37
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	5	7	2	5	16	1
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	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	17	16	18	17	23	73	38

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.

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
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2025-26 (CAY)	30	17	0	56.67
2024-25 (CAYm1)	30	11	0	36.67
2023-24 (CAYm2)	30	11	0	36.67

Average  $[(ER1 + ER2 + ER3) / 3] = 43.34 \approx 5.00$

#### 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	(2021-22) LYG	(2020-21) LYGm1	(2019-20) 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).	95.00	136.00	121.00
B=No. of students who graduated from the program in the stipulated course duration	20.00	73.00	37.00
Success Rate (SR)= (B/A) * 100	21.05	53.68	30.58

Average SR of three batches  $((SR_1 + SR_2 + SR_3)/3)$ : 35.10

#### 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 ( 2024-25 )	CAYm2( 2023-24 )	CAYm3 ( 2022-23 )
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)	6.19	6.32	7.48
Y=Total no. of successful students	11.00	11.00	15.00
Z=Total no. of students appeared in the examination	11.00	11.00	15.00
API $[X*(Y/Z)]$	6.19	6.32	7.48

Average API  $[(AP1+AP2+AP3)/3]$  : 6.66

#### 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 ( 2024-25 )	CAYm2 ( 2023-24 )	CAYm3 ( 2022-23 )
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 2nd year/10)	6.32	6.51	5.48
Y=Total no. of successful students	17.00	17.00	21.00
Z=Total no. of students appeared in the examination	18.00	17.00	23.00
API $[ X * (Y/Z) ]$	5.97	6.51	5.00

Average API  $[(AP1 + AP2 + AP3)/3]$  : 5.83

#### 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 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
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)	7.44	4.92	5.92
Y=Total no. of successful students	17.00	21.00	73.00
Z=Total no. of students appeared in the examination	17.00	21.00	73.00

API [ X*(Y/Z) ]:	7.44	4.92	5.92
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Average API [ (AP1 + AP2 + AP3)/3 ] : 6.09

**B9. Placement, Higher Studies, and Entrepreneurship**

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

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	95.00	136.00	121.00
X=No. of students placed	19.00	63.00	30.00
Y=No. of students admitted to higher studies	1.00	8.00	6.00
Z= No. of students taking up entrepreneurship	0.00	2.00	1.00
Placement Index(P) = $((X + Y + Z)/FS) * 100$ :	21.05	53.68	30.58

Average Placement Index =  $(P_{-1} + P_{-2} + P_{-3})/3$ : 35.10 Placement Index Points:**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

Sr.No	Name of the Faculty	PAN No.	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)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr. Nisha L	XXXXXXXX54P	M.Tech and Ph.D.	IIT Roorkee	Environmental Engineering	18/07/2018	7.6	Associate Professor	Professor	01/08/2023	Regular	Yes		No
2	Dr. Sanju Sreedharan	XXXXXXXX32E	M.Tech and Ph.D.	Cochin University of Science and Technology	Environmental Engineering	01/06/2005	20.7	Lecturer	Associate Professor	01/01/2010	Regular	Yes		Yes
3	Dr. Ratish Menon	XXXXXXXX81Q	M.Tech and Ph.D.	IIT Bombay	Environmental Engineering	01/08/2013	12.2	Assistant Professor	Professor	02/05/2022	Regular	No	13/10/2025	No
4	Dr. Praseeja A V	XXXXXXXX14B	M.Tech and Ph.D.	APJ Abdul Kalam Technological University	Water Resources Engineering	01/08/2018	7.5	Assistant Professor	Associate Professor	01/08/2023	Regular	Yes		No
5	Dr Santhosh G	XXXXXXXX01L	M.Tech and Ph.D.	Cochin University of Science and Technology	Geotechnical Engineering	07/12/2010	13.5	Associate Professor	Associate Professor		Regular	No	31/05/2024	No

6	Dr. Akhila M	XXXXXXXX72L	M.Tech and Ph.D.	NIT Calicut	Geotechnical Engineering	01/08/2019	6.5	Assistant Professor	Associate Professor	01/08/2023	Regular	Yes		No
7	Ms. Nandita Mohan	XXXXXXXX75K	M.Tech	MG University	Computer Aided Structural Engineering	01/06/2011	14.7	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Ms. Roshni K R	XXXXXXXX99M	M.Tech	Calicut University	Environmental Engineering	06/01/2014	12	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Ms. Tenu Syriac	XXXXXXXX65C	M.Tech	MG University	Computer Aided Structural Engineering	06/01/2014	12	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Ms. Geethu R Babu	XXXXXXXX03P	M.Tech	Cochin University of Science and Technology	Computer Aided Structural Analysis and Design	01/12/2014	11.1	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Dr. Lakshmi Priya	XXXXXXXX39F	M.Tech and Ph.D.	NIT Calicut	Environmental Engineering	15/01/2015	11	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Ms. Remya Y K	XXXXXXXX41R	M.Tech	Kerala University	Traffic and Transportation Engineering	01/07/2015	10.6	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Ms. Merin Mathew	XXXXXXXX90A	M.Tech	MG University	Environmental Engineering	01/03/2016	9.10	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Mr. Deeraj. A. D	XXXXXXXX59B	M.Tech	Calicut University	Geotechnical Engineering	18/07/2018	7.6	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Mr. Jerry Anto	XXXXXXXX41N	M.E.	Anna University	Structural Engineering	18/07/2018	7.6	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Mr. Deepu R	XXXXXXXX86M	M.Tech	APJ Abdul Kalam Technological University	Traffic and Transportation Engineering	18/07/2018	7.6	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Ms. Sruthy M R	XXXXXXXX81C	M.Tech	NIT Calicut	Environmental Geotechnology	18/07/2018	7.6	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Ms. Sruthy S	XXXXXXXX80M	M.Tech	MG University	Environmental Engineering	01/08/2019	6.5	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Ms Anjana Susan John	XXXXXXXX43M	M.Tech	MG University	Geomechanics and Structures	05/08/2019	6.5	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Ms Meera Varghese	XXXXXXXX48D	M.Tech	NIT Surathkal	Environmental Engineering	08/08/2019	6.5	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Dr. Rahul R Pai	XXXXXXXX10G	M.Tech and Ph.D.	NIT Surat	Transportation Geotechnics	08/11/2021	3.6	Assistant Professor	Assistant Professor		Regular	No	28/05/2025	No

22	Mr. Akshai K Sughathan	XXXXXXXX52R	M.Tech	APJ Abdul Kalam Technological University	Structural Engineering	08/11/2021	2.6	Assistant Professor	Assistant Professor		Regular	No	31/05/2024	No
23	Ms Anju Mary Ealias	XXXXXXXX61A	M.Tech	MG University	Structural Engineering and Construction Management	03/01/2022	4	Assistant Professor	Assistant Professor		Regular	Yes		No
24	Ms. Sruthy Robert	XXXXXXXX96G	M.Tech	APJ Abdul Kalam Technological University	Environmental Engineering	01/08/2025	0.5	Assistant Professor	Assistant Professor		Regular	Yes		No
25	Mr. Stiffin Benny	XXXXXXXX44J	M.Tech	NIT Surathkal	Construction Technology and Management	08/02/2021	3.3	Assistant Professor	Assistant Professor		Regular	No	31/05/2024	No

Table No.C2: Faculty details of Allied Departments for the past 3 years including CAY.

**C2. Student-Faculty Ratio (SFR)**

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

UG1=1st UG program

UGn=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)

No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):

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)).

No. of UG Programs in the Department<sup>2</sup> No. of PG Programs in the Department<sup>2</sup>

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	0	0	30
UG1.C	0	30	30
UG1.D	30	30	0
<b>UG1: CIVIL AND ENVIRONMENTAL ENGINEERING</b>	<b>30</b>	<b>60</b>	<b>60</b>
UG2.B	33	33	62
UG2.C	33	62	95
UG2.D	62	95	132

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
<b>UG2: Civil Engineering</b>	<b>128</b>	<b>190</b>	<b>289</b>
PG1.A	18	18	18
PG1.B	18	18	18
<b>PG1: Computer Aided Structural Engineering</b>	<b>36</b>	<b>36</b>	<b>36</b>
PG2.A	18	18	18
PG2.B	18	18	24
<b>PG2: Environmental Engineering</b>	<b>36</b>	<b>36</b>	<b>42</b>
DS=Total no. of students in all UG and PG programs in the Department	230	322	427
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	<b>S1= 230</b>	<b>S2= 322</b>	<b>S3= 427</b>
DF=Total no. of faculty members in the Department	20	21	24
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	<b>F1= 20</b>	<b>F2= 21</b>	<b>F3= 24</b>
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	0	0
Student Faculty Ratio (SFR)=S/(F-FF)	<b>SFR1= 11.50</b>	<b>SFR2= 15.33</b>	<b>SFR3= 17.79</b>
Average SFR for 3 years	<b>SFR= 14.87</b>		

**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	FQ = $2.5 \times [(10X + 4Y) / RF]$
2025-26(CAY)	5	15	11.00	25.00
2024-25(CAYm1)	7	14	16.00	19.69
2023-24(CAYm2)	8	16	21.00	17.14

**C4. Faculty Cadre Proportion**

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required =  $1/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents.}$
- RF2= No. of Associate Professors required =  $2/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents.}$
- RF3= No. of Assistant Professors required =  $6/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents.}$
- 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 RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3

2025-26	1.00	1.00	2.00	3.00	7.00	16.00
2024-25	1.00	2.00	3.00	3.00	10.00	16.00
2023-24	2.00	2.00	4.00	4.00	14.00	18.00
Average	RF1=1.33	AF1=1.67	RF2=3.00	AF2=3.33	RF2=10.33	AF2=16.67

**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.

**(CAYm1)**

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. John Tharakan	Professor and Director of Graduate Studies	Howard University	Environmental Engineering	25.00
2	Dr. John Tharakan	Professor and Director of Graduate Studies	Howard University	Sustainable Engineering	26.00

**(CAYm2)**

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. John Tharakan	Professor and Director of Graduate Studies	Howard University	Disaster Management	26.00
2	Dr. John Tharakan	Professor and Director of Graduate Studies	Howard University	Advanced Environmental Engineering	26.00

**(CAYm3)**

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. John Tharakan	Professor and Director of Graduate Studies	Howard University	Environmental Engineering	25.00
2	Dr. John Tharakan	Professor and Director of Graduate Studies	Howard University	Disaster Management	26.00

**C6. Academic Research**

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	4	3	6
2	No. of peer reviewed conference papers published	8	16	2
3	No. of books/book chapters published	1	0	0

**C7. Sponsored Research Project**

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

## (CAYm1)

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) i.e. 15,25,000=15.25
Dr. Ratish Menon	nil	Civil Engineering	Characterisation of Airborne Microplastics in the Greater Cochin Area	APJA-KTU Research Seed Money Grant	3 years	1.39
Mr. Deeraj A. D.	nil	Civil Engineering	Effects of Flood Water Stagnation on Fibre Reinforced Soils.	APJA-KTU Research Seed Money Grant	3 years	0.46
Dr. Lakshmi Priya	nil	Civil Engineering	Development of a Pollution Potential Index for Ranking Existing Dumpsites Based on Environment Risk	APJA-KTU Financial Assistance to Student Projects	1 year	0.25
						Amount received (Rs.):2.10

## (CAYm2)

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) i.e. 15,25,000=15.25
Dr. Lakshmi Priya	nil	Civil Engineering	Geochemical distribution and risk assessment of heavy metals in urban water body	APJA-KTU Financial Assistance to Student Projects	1 year	0.26
						Amount received (Rs.):0.26

## (CAYm3)

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) i.e. 15,25,000=15.25
Dr. Ratish Menon	Dr. Sunny George	Civil Engineering	Management of Groundwater Pumping for Irrigation with special reference to Calcified zones in Palakkad district	Groundwater Department of Kerala	1 year	10.80
Ms. Merin Mathew	nil	Civil Engineering	Catchment scale source apportionment of sediment yield into Vembanad Lake	APJA-KTU Research Seed Money Grant	3 years	1.60
Dr. Praseeja A. V.	nil	Civil Engineering	Study of dispersion coefficient of contaminants through different types of soils and remediation using natural fibres.	APJA-KTU Research Seed Money Grant	3 years	1.55
Dr. Rahul R Pai	nil	Civil Engineering	Fatigue studies and resilient behavior of crushed brick fly ash lime (CBFL) mix for use in base layer of flexible pavement.	APJA-KTU Research Seed Money Grant	3 years	0.90
						Amount received (Rs.):14.85

**Total Amount (Lacs) Received for the Past 3 Years: 17.21**

**Note\*:**

- Only sponsored research projects will be considered. Infrastructure-based projects will not be considered here.

**C8. Consultancy Work**

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

## (CAYm1)

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) i.e. 15,25,000=15.25
Dr. Ratish Menon	Dr. Sunny George	Civil Engineering	Developing a comprehensive city sanitation plan for Aluva town	The Association for Environment Protection, Aluva	1 year	3.00
Dr. Rahul R. Pai	Mr. Deepu R	Civil Engineering	Providing training to the Draftsman at Civil section KSRTC	Kerala State Road Transport Corporation	6 days	0.26
Dr. Ratish Menon	Dr. Sunny George	Civil Engineering	Conducting a 10-day Certificate Course on Water and Wastewater Quality Analysis (for 2 batches)	WASH, Institute Delhi	1.5 months	11.83
Mr. Jerry Anto	nil	Civil Engineering	Laboratory consultancies	Private and government agencies	1 year	1.50
						Amount received (Rs.):16.59

## (CAYm2)

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) i.e. 15,25,000=15.25
Mr. Jerry Anto	nil	Civil Engineering	Laboratory consultancies	Private and government agencies	1 year	1.62
						Amount received (Rs.):1.62

## (CAYm3)

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) i.e. 15,25,000=15.25
Dr. Ratish Menon	Dr. Sunny George	Civil Engineering	Design and implementation of nature based wastewater treatment system at government higher secondary school Elamakkara	C-HED of Kochi Municipal Corporation	1 year	10.00
Mr. Jerry Anto	nil	Civil Engineering	Graphene Oxide studies in Concrete	Carborundum Universal Ltd (CUMI)	4 months	0.86
Dr. Ratish Menon	nil	Civil Engineering	Total station survey for 'Improvements of junctions - Thengana Junction Kottayam district	Public Works Department of Kerala	2 months	4.15
Mr. Jerry Anto	nil	Civil Engineering	Laboratory consultancies	Private and government agencies	1 year	1.37
						Amount received (Rs.):16.38

**Total amount (Lacs) received for the past 3 years: 34.59**

**Note\*:**

- Only consultancy projects will be considered. Infrastructure-based projects will not be considered here.

**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.

## (CAYm1)

## (CAYm2)

(CAYm3)

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.

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Civil Engineering Workshop	30	Dumpy Level, Levelling Staff	6 Hours	Mr. Anoop M	Lab Instructor	Diploma in Civil Engineer
2	Surveying Lab	15	Total Station, Theodolite, Dumpy Level, Automatic Level, Prismatic Compass, Chain, Engineers Tilting Level, Electronic Distance Measurement Unit	10 Hours	Mr. Anoop M	Lab Instructor	Diploma in Civil Engineer
3	Strength of Materials Lab	15	Universal Testing Machine, Vickers hardness testing machine, Compression Testing Machine, Rockwell and Brinell hardness testing machine, Charpy testing machine	12 Hours	Mr.Ramesh Rajan M	Lab Instructor	Civil Draughtsman
4	Material Testing Lab	15	Compression Testing Machine, Vicat apparatus, Sieve shaker, Tile flexure strength testing machine, Slump test apparatus, Compressive Factor	10 Hours	Mr.Ramesh Rajan M	Lab Instructor	Civil Draughtsman
5	Geotechnical Engineering Lab	15	Direct shear apparatus, Unconfined compression tester, Laboratory vane shear apparatus, Triaxial apparatus, Soil hydrometer, Moisture content	10 Hours	Ms Dhanaya T B	Lab Instructor	Diploma in Civil Engineer
6	Transportation Lab	15	California Bearing Ratio test apparatus, Ring and ball apparatus, Standard Penetrometer, Ductility Testing machine, Standard Penetrometer Test	10 Hours	Ms Dhanaya T B	Lab Instructor	Diploma in Civil Engineer
7	Computer Lab	15	Computers, Printer, LCD Projector, Softwares, Auto CAD, STAAD Pro, Ansys, ETabs, BioWin, QGIS	10 Hours	Mr. Sumesh	Computer Lab Assistant	Diploma in Information T
8	Environmental Engineering Lab	15	COD Digestion Apparatus, BOD Incubator, Digital Spectrophotometer, Jar Test Apparatus, Muffle Furnace, Filtration Apparatus, Hot air oven, Digital	10 Hours	Mr. Rohit Raveendran	Lab Instructor	M.Sc in Environmental C

**D2. Safety Measures in Laboratories**

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

Sr. No	Laboratory Name	Safety Measures
1	Civil Engineering Workshop	1. General Rules of Conduct in Laboratory are displayed 2. Specific Safety Rules for students are displayed 3. First aid box 4. Well trained technical supporting staff 5. Avoiding the use of damaged equipment and providing needful equipment and components 6. Periodical servicing of the lab equipment 7. Maintaining a clean and organized laboratory 8. Appropriate storage areas 9. Insist on wearing proper safety shoes 10. Loose clothing is not allowed 11. Tie back long hair

2	Surveying Lab	1. General Rules of Conduct in Laboratory are displayed 2. Specific Safety Rules for students are displayed 3. First aid box 4. Well trained technical supporting staff 5. Avoiding the use of damaged equipment and providing needful equipment and components 6. Periodical servicing of the lab equipment 7. Maintaining a clean and organized laboratory 8. Appropriate storage areas 9. Insist on wearing proper safety shoes 10. Loose clothing is not allowed 11. Tie back long hair 12. The tripod holding the instrument should be well spread while doing the experiment 13. Do not set the instruments on smooth floor without proper precaution 14. Instrument should be carried on shoulders while carrying from one place to another
3	Strength of Materials Lab	1. General Rules of Conduct in Laboratory are displayed 2. Specific Safety Rules for students are displayed 3. First aid box 4. Fire Extinguisher 5. Well trained technical supporting staff 6. Avoiding the use of damaged equipment and providing needful equipment and components 7. Periodical servicing of the lab equipment 8. Maintaining a clean and organized laboratory 9. Appropriate storage areas 10. Insist on wearing proper safety shoes 11. Loose clothing is not allowed 12. Tie back long hair 13. Do not leave equipment unattended while in the switched on (operating) condition
4	Material Testing Lab	1. General Rules of Conduct in Laboratory are displayed 2. Specific Safety Rules for students are displayed 3. First aid box 4. Fire Extinguisher 5. Well trained technical supporting staff 6. Avoiding the use of damaged equipment and providing needful equipment and components 7. Periodical servicing of the lab equipment 8. Maintaining a clean and organized laboratory 9. Appropriate storage areas 10. Insist on wearing proper safety shoes 11. Loose clothing is not allowed 12. Tie back long hair 13. Do not leave equipment unattended while in the switched on (operating) condition 14. Work surfaces and floors are kept dry and slip resistant 15. All glasswares should be handled with care
5	Geotechnical Engineering Lab	1. General Rules of Conduct in Laboratory are displayed 2. Specific Safety Rules for students are displayed 3. First aid box 4. Fire Extinguisher 5. Well trained technical supporting staff 6. Periodical servicing of the lab equipment 7. Maintaining a clean and organized laboratory 8. Appropriate storage areas 9. Insist on wearing proper safety shoes 10. Loose clothing is not allowed 11. Tie back long hair 12. Do not operate the machine/equipment in the absence of faculty incharge/lab instructor 13. All equipments, tools and glasswares must be handled with utmost care 14. Oven should be used with caution even while placing items inside it. Use gloves. Do not leave your items in an oven over a week. Use the log sheet to track your samples 15. Do not turn on microwave when it is empty 16. The instruments/accessories should be properly cleaned after use
6	Transportation Engineering Lab	1. General Rules of Conduct in Laboratory are displayed 2. Specific Safety Rules for students are displayed 3. First aid box 4. Fire Extinguisher 5. Well trained technical supporting staff 6. Avoiding the use of damaged equipment and providing needful equipment and components 7. Periodical servicing of the lab equipment 8. Maintaining a clean and organized laboratory 9. Appropriate storage areas 10. Insist on wearing proper safety shoes 11. Loose clothing is not allowed 12. Tie back long hair 13. Do not leave equipment unattended while in the operating condition 14. All glasswares should be handled with care 15. Work surfaces and floors are kept dry and slip resistant 16. Receive instructions on proper use of equipment before operating any equipment
7	Computer Lab	1. General Rules of Conduct in Laboratory are displayed 2. Fire Extinguisher 3. Well trained technical supporting staff 4. Do not plug in external devices without scanning them for computer viruses 5. Try not to touch any of the circuit boards and power sockets when a device is connected to electric supply and switched on 6. Students should not attempt to repair, open, tamper or interfere with any of the computer, printing, cabling, air conditioning or other equipment in the laboratory
8	Environmental Engineering Lab	1. General Rules of Conduct in Laboratory are displayed 2. Specific Safety Rules for students are displayed 3. First aid box 4. Fire Extinguisher 5. Well trained technical supporting staff 6. Avoiding the use of damaged equipment and providing needful equipment and components 7. Periodical servicing of the lab equipment 8. Maintaining a clean and organized laboratory 9. Appropriate storage areas 10. Insist on wearing proper safety shoes 11. Loose clothing is not allowed 12. Tie back long hair 13. Do not operate the equipment in the absence of lab instructor 14. All the glasswares should be cleaned and rinsed with distilled water before starting the experiment 15. All the chemical reagents should be handled carefully 16. Do not pipette concentrated Acids and Buffers 17. Use rubber bulb with volumetric/graduated pipette 18. Material Safety Data Sheet (MSDS) for hazardous chemicals are filed in the laboratory

**D3. Project Laboratory/Research Laboratory**

**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= $((NS1*0.8) + (NS2*0.2))/RF$
2023-24(CAYm2)	570	28	20	56	97
2024-25(CAYm1)	570	28	21	60	103
2025-26(CAY)	600	30	22	66	103

## 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 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Infrastructure Built-Up	43531343	16602475	11875000	11615668	10393000	10639088	4360000	5801990
Library	2710000	147946	3210000	2336254	2725000	2624541	935000	1131131
Laboratory equipment	950000	365959	1100000	1129983	1090000	1227505	645000	621098
Teaching and non-teaching staff salary	111000000	55537479	104335000	108037032	101235000	105766932	103300000	102334817
Outreach Programs	2835000	1508343	2330000	2214708	2325000	2344399	0.00	0.00
R&D	2500000	0.00	1200000	1102538	1500000	1186462	2500000	3551945
Training, Placement and Industry linkage	3000000	1129768	3870000	4131963	2750000	2639251	750000	1406579
SDGs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Entrepreneurship	3500000	2956793	3000000	3377622	1500000	1384584	1000000	1008780
Others, specify	122280000	45169816	110960000	116945808	101607000	103135834	101635000	91747357
<b>Total</b>	<b>292306343.00</b>	<b>123418579.00</b>	<b>241880000.00</b>	<b>250891576.00</b>	<b>225125000.00</b>	<b>230948596.00</b>	<b>215125000.00</b>	<b>207603697.00</b>

## 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 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
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Laboratory equipment	0	0	500000	389105	60000	35071.43	240000	267806
Software	0	0	0	88500	0	0	0	0
SDGs	50000	35141	150000	125025	200000	40441	0	9500
Support for faculty development	20000	10254	40000	25362	12000	0	190000	0
R & D	200000	232500	150000	170000	100000	70000	0	100000
Industrial Training, Industry expert, Internship	15000	8845	120000	2300	127000	1020	45000	1500
Miscellaneous Expenses*	20000	14841	150000	63099	55000	287919	85000	152522
<b>Total</b>	<b>305000</b>	<b>301581</b>	<b>1110000</b>	<b>863391</b>	<b>554000</b>	<b>434451.43</b>	<b>560000</b>	<b>531328</b>