NATIONAL BOARD OF ACCREDITATION

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

Program Name : Civil Engineering	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 1
Application No: 11376	**Date of Submission**: 29-10-2026

PART A- Profile of the Institute

A1.Name of the Institute: ERODE SENGUNTHAR ENGINEERING COLLEGE	
Year of Establishment : 1995	Location of the Institute: THUDUPATHI
A2. Institute Address:THUDUPATHI POST, PERUNDURAI TALUK	
City:Erode	State:Tamil Nadu
Pin Code:638057	Website:www.erodesengunthar.ac.in
Email:contact@esec.ac.in	Phone No(with STD Code):04294-232701
A3. Name and Address of the Affiliating University (if any):	
Name of the University : ANNA UNIVERSITY OF TECHNOLOGY, CHENNAI	City: Chennai
State : Tamil Nadu	Pin Code: 600025
A4. Type of the Institution: Self-Supported Institute	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **17**
- No. of PG programs: **10**

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	2004	--	Computer Application
2	Engineering & Technology	UG	Agricultural Engineering	2020	--	Agricultural Engineering
3	Engineering & Technology	PG	Applied Electronics	2013	--	Electronics and Communication Engineering
4	Engineering & Technology	UG	Artificial Intelligence and Data Science	2020	--	Computer Science and Engineering
5	Engineering & Technology	UG	Biomedical Engineering	2018	--	Biomedical Engineering
6	Engineering & Technology	UG	Biotechnology	2023	--	Biotechnology
7	Engineering & Technology	PG	Chemical Engineering	2018	--	Chemical Engineering
8	Engineering & Technology	UG	Chemical Engineering	1996	--	Chemical Engineering
9	Engineering & Technology	UG	Civil Engineering	2002	--	Civil Engineering
10	Engineering & Technology	UG	Computer Science and Design	2021	--	Computer Science and Engineering

11	Engineering & Technology	UG	Computer Science and Engineering	1999	--	Computer Science and Engineering
12	Engineering & Technology	PG	Computer Science and Engineering	2011	--	Computer Science and Engineering
13	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2024	--	Computer Science and Engineering
14	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2024	--	Computer Science and Engineering
15	Engineering & Technology	UG	Computer Science and Engineering (Internet of Things)	2025	--	Computer Science and Engineering
16	Engineering & Technology	UG	Electrical and Electronics Engineering	1996	--	Electrical and Electronics Engineering
17	Engineering & Technology	UG	Electronics & Communication Engineering	2000	--	Electronics and Communication Engineering
18	Engineering & Technology	UG	Electronics & Instrumentation Engineering	2001	--	Electronics and Instrumentation Engineering
19	Engineering & Technology	PG	Environmental Engineering	2012	--	Civil Engineering
20	Engineering & Technology	PG	Industrial Safety Engineering	2018	--	Mechanical Engineering
21	Engineering & Technology	UG	Information Technology	2019	--	Information Technology
22	Engineering & Technology	PG	Manufacturing Engineering	2004	--	Mechanical Engineering
23	Engineering & Technology	UG	Mechanical Engineering	1996	--	Mechanical Engineering
24	Engineering & Technology	PG	Power Electronics and Drives	2012	--	Electrical and Electronics Engineering
25	Engineering & Technology	UG	Robotics and Automation	2020	--	Robotics and Automation
26	Engineering & Technology	PG	Structural Engineering	2023	--	Civil Engineering
27	Management	PG	Master of Business Administration	2008	--	Management

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

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

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 ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Civil Engineering	UG	2002 / --	60	Yes	2019	30	2019	F.No. Southern/1-4266315541/2019/EOA Date: 29-Apr-2019	Granted accreditation for 3 years for the period (specify period)	2023	2026	4	4

Sanctioned Intake for Last Five Years for the Environmental Engineering	
Academic Year	**Sanctioned Intake**
2025-26	30
2024-25	30
2023-24	30
2022-23	30
2021-22	30
2020-21	30

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 :	GOPALAKRISHNAN K M
B. Nature of appointment:	Regular
C. Qualification:	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	30	30	30	30
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	27	29	24	28	19	23	14
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	5	1	3	3	7	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	1	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	27	34	25	31	23	30	20

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]
2025-26 (CAY)	30	27	0	90.00
2024-25 (CAYm1)	30	29	0	96.67
2023-24 (CAYm2)	30	24	0	80.00

Average [(ER1 + ER2 + ER3) / 3] = 88.89≡ 17.00

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).	33.00	37.00	36.00
B=No. of students who graduated from the program in the stipulated course duration	20.00	24.00	19.00

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 60.43

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)
Mean of CGPA or mean percentage of all successful students(X)	8.35	8.00	8.07
Y=Total no. of successful students	26.00	21.00	27.00
Z=Total no. of students appeared in the examination	27.00	22.00	27.00
API [X*(Y/Z)]	8.04	7.64	8.07

Average API[(AP1+AP2+AP3)/3] : 7.92

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 2rd year/10)	8.16	8.14	8.24
Y=Total no. of successful students	22.00	30.00	21.00
Z=Total no. of students appeared in the examination	23.00	30.00	22.00
API [X * (Y/Z)]	7.81	8.14	7.87

Average API [(AP1 + AP2 + AP3)/3] : 7.94

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)	8.28	8.27	8.38
Y=Total no. of successful students	29.00	20.00	25.00
Z=Total no. of students appeared in the examination	30.00	21.00	25.00
API [X*(Y/Z)]:	8.00	7.88	8.38

Average API [(AP1 + AP2 + AP3)/3] : 8.09

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	33.00	37.00	36.00
X=No. of students placed	15.00	19.00	19.00
Y=No. of students admitted to higher studies	1.00	4.00	0.00
Z= No. of students taking up entrepreneurship	0.00	2.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	63.64	67.57	52.78

Average Placement Index = (P_1 + P_2 + P_3)/3: 61.33 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	GOPALAKRISHNAN K M	XXXXXXX72G	Ph.D	Anna University	STRUCTURAL ENGINEERING	17/06/2009	16.6	Lecturer	Professor	01/02/2019	Regular	Yes		Yes
2	KRISHNASAMY R	XXXXXXX65Q	Ph.D	Anna University	STRUCTURAL ENGINEERING	13/06/2018	7.6	Assistant Professor	Associate Professor	02/01/2024	Regular	Yes		No
3	ARUN PRASAD J	XXXXXXX65K	Ph.D	ANNAMALAI UNIVERSITY	STRUCTURAL ENGINEERING	03/06/2019	6.6	Assistant Professor	Assistant Professor		Regular	Yes		No
4	BALAJI M	XXXXXXX45L	M.E.	Anna University	STRUCTURAL ENGINEERING	13/06/2018	7.6	Assistant Professor	Assistant Professor		Regular	Yes		No
5	DHIVAKARKARTHICK M	XXXXXXX90E	M.E.	Anna University	CONSTRUCTION ENGINEERING AND MANAGEMENT	03/06/2019	6.6	Assistant Professor	Assistant Professor		Regular	Yes		No

6	SELVAKUMAR P	XXXXXXX36R	M.E.	Anna University	STRUCTURAL ENGINEERING	06/06/2014	11.6	Assistant Professor	Assistant Professor		Regular	Yes		No
7	ANUKARTHIKA B	XXXXXXX09E	M.E.	Anna University	STRUCTURAL ENGINEERING	03/06/2019	6.6	Assistant Professor	Assistant Professor		Regular	Yes		No
8	CHRISTIAN JOHNSON S	XXXXXXX07E	Ph.D	Anna University	AERONAUTICAL ENGINEERING WITH AIRCRAFT STRUCTURES	11/07/2018	7.5	Professor	Professor		Regular	Yes		No
9	ARULMOZHI S	XXXXXXX08Q	Ph.D	Anna University	ENVIRONMENTAL ENGINEERING	01/12/2020	5	Associate Professor	Associate Professor	01/12/2020	Regular	Yes		No
10	VALLARASU K	XXXXXXX28D	M.E.	Anna University	ENVIRONMENTAL ENGINEERING	01/09/2022	3.3	Assistant Professor	Assistant Professor		Regular	Yes		No
11	SARANYA S	XXXXXXX25J	M.E.	Anna University	ENVIRONMENTAL ENGINEERING	23/08/2024	1.3	Assistant Professor	Assistant Professor		Regular	Yes		No
12	MAHAMITHRA D	XXXXXXX07H	M.E.	Anna University	ENVIRONMENTAL ENGINEERING	12/08/2024	0.9	Assistant Professor	Assistant Professor		Regular	No	31/05/2025	No
13	GOPALAN A	XXXXXXX65P	Ph.D	Anna University	CONSTRUCTION ENGINEERING AND MANAGEMENT	01/07/2020	5.5	Professor	Professor		Regular	Yes		No
14	BOOPATHIRAJA S	XXXXXXX35C	M.E.	Anna University	STRUCTURAL ENGINEERING	01/06/2011	13.2	Lecturer	Assistant Professor		Regular	No	31/07/2024	No
15	NITHYAPRAKASH G	XXXXXXX75P	M.E.	Anna University	STRUCTURAL ENGINEERING	02/05/2011	13.2	Lecturer	Assistant Professor		Regular	No	29/06/2024	No
16	KRISHNA D	XXXXXXX22E	M.E.	Anna University	STRUCTURAL ENGINEERING	05/06/2017	7	Assistant Professor	Assistant Professor		Regular	No	29/06/2024	No
17	ROHINI C	XXXXXXX03Q	M.E.	Anna University	ENVIRONMENTAL ENGINEERING	22/06/2015	9.4	Assistant Professor	Assistant Professor		Regular	No	26/10/2024	No
18	ABIRAMY R	XXXXXXX84D	M.E.	Anna University	ENVIRONMENTAL ENGINEERING	02/07/2018	6.1	Assistant Professor	Assistant Professor		Regular	No	31/07/2024	No
19	BALAMURUGAN P	XXXXXXX40M	Ph.D	Anna University	GEOGRAPHY	27/07/2009	15	Lecturer	Associate Professor	01/07/2019	Regular	No	31/07/2024	No
20	JANANI G	XXXXXXX31E	M.E.	Anna University	STRUCTURAL ENGINEERING	05/08/2024	1.4	Assistant Professor	Assistant Professor		Regular	Yes		No
21	MUTHURAMAN R M	XXXXXXX86P	Ph.D	ANNAMALAI UNIVERSITY	INTEGRATED WATER RESOURCE MANAGEMENT	08/06/2023	2.6	Associate Professor	Associate Professor		Regular	Yes		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 Department1 No. of PG Programs in the Department2

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

Description	**CAY(2025-26)**	**CAYm1 (2024-25)**	**CAYm2 (2023-24)**
UG1.B	33	31	33
UG1.C	31	33	33
UG1.D	33	33	33
UG1: Civil Engineering	**97**	**97**	**99**
PG1.A	24	30	30
PG1.B	30	30	30
PG1: Environmental Engineering	**54**	**60**	**60**
PG2.A	18	24	24
PG2.B	24	24	0
PG2: Structural Engineering	**42**	**48**	**24**
DS=Total no. of students in all UG and PG programs in the Department	193	205	183
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)	**S1=** 193	**S2=** 205	**S3=** 183
DF=Total no. of faculty members in the Department	14	15	18
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)	**F1=** 14	**F2=** 15	**F3=** 18
FF=The faculty members in F who have a 100% teaching load in the first-year courses	1	1	3
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 14.85**	**SFR2= 14.64**	**SFR3= 12.20**
Average SFR for 3 years	**SFR= 13.90**		

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 x [(10X + 4Y) / RF)]
2025-26(CAY)	6	8	9.00	25.56
2024-25(CAYm1)	6	9	10.00	24.00
2023-24(CAYm2)	6	12	9.00	30.00

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 RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	1.00	3.00	2.00	3.00	6.00	8.00
2024-25	1.00	3.00	2.00	3.00	7.00	9.00
2023-24	1.00	3.00	2.00	3.00	6.00	12.00
Average	RF1=1.00	AF1=3.00	RF2=2.00	AF2=3.00	RF2=6.33	AF2=9.67

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	Mr.S Manikandan	Site Engineer	M/s. Vinayaka Hi-Tech Builders, Erode.	Real-Time Construction Practices in Civil Engineering	56.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Er.V.Yoganandh	Structural Consultant	Coimbatore	Advanced Training Programme on Structural Analysis and Design Software	56.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Er.Vivek Manoharan	Structural Engineer	Edifice Technologies, Perundurai, Erode.	Risk Management Strategies for Large Scale Civil Engineering	64.00

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	13	12	9
2	No. of peer reviewed conference papers published	6	7	1
3	No. of books/book chapters published	13	2	1

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.R.Krishnasamy	-	Civil Engineering	Effects of GFRP bolt on the mechanical properties of GFRP angle connections used in Civil Construction	TNSCST	6 months	0.08
Dr.R.Krishnasamy	-	Civil Engineering	Investigation and Development of Lattice type Power transmission Tower using GFRP	Private	2 months	1.50
						Amount received (Rs.):1.58

(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
M.Dhivakar Karthick	-	Civil Engineering	Potential application of novel microbe as an healent in cement	TNSCST	6 months	0.08
						Amount received (Rs.):0.08

(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.S.Arulmozhi	-	Civil Engineering	Advanced Oxidation Process for treatment of contaminated water with micro pollutants	TNSCST	6 months	0.08
						Amount received (Rs.):0.08

Total Amount (Lacs) Received for the Past 3 Years: 1.74

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.K.M.Gopalakrishnan	-	Civil Engineering	Solid Block	Private	10 Days	6.21
Dr.K.M.Gopalakrishnan	M.Dhivakar Karthick	Civil Engineering	Mix Design	Private	7 Days	0.20
Dr.K.M.Gopalakrishnan	J.Arun Prasad	Civil Engineering	Layout Inspection	Private	1 Day	0.03
Dr.K.M.Gopalakrishnan	R.Krishnasamy	Civil Engineering	Non-Destructive Testing	Private	2 Days	0.06
Dr.K.M.Gopalakrishnan	Dr.S.Arulmozhi, R.Krishnasamy, M.Balaji	Civil Engineering	Material Testing	Private	3 Days	2.00
Dr.K.M.Gopalakrishnan	J.Arun Prasad, M.Dhivakar Karthick	Civil Engineering	Plan & Blue Print	Private	10 Days	0.25
						Amount received (Rs.):8.75

(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.K.M.Gopalakrishnan	-	Civil Engineering	Solid Block	Private	10 Days	4.78
Dr.K.M.Gopalakrishnan	-	Civil Engineering	GPS Survey and Field Investigation	Private	1 month	0.09
Dr.K.M.Gopalakrishnan	K.Vallarasu	Civil Engineering	Soil Testing	Private	5 Days	0.66
Dr.K.M.Gopalakrishnan	M.Dhivakar Karthick	Civil Engineering	Mix Design	Private	7 Days	0.32
Dr.K.M.Gopalakrishnan	J.Arun Prasad	Civil Engineering	Layout Inspection	Private	1 Day	0.02
Dr.K.M.Gopalakrishnan	R.Krishnasamy	Civil Engineering	Non-Destructive Testing	Private	2 Days	0.13
Dr.K.M.Gopalakrishnan	Dr.S.Arulmozhi, R.Krishnasamy, M.Balaji	Civil Engineering	Material Testing	Private	3 Days	1.48
Dr.K.M.Gopalakrishnan	J.Arun Prasad, M.Dhivakar Karthick	Civil Engineering	Plan & Blue Print	Private	10 Days	1.28
						Amount received (Rs.):8.76

(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.K.M.Gopalakrishnan	-	Civil Engineering	Solid block	Private	1 month	1.99
Dr.K.M.Gopalakrishnan	K.Vallarasu	Civil Engineering	Soil Testing	Private	5 Days	0.45
Dr.K.M.Gopalakrishnan	R.Krishnasamy	Civil Engineering	Bitumen Testing	Private	3 Days	0.03
Dr.K.M.Gopalakrishnan	J.Arun Prasad	Civil Engineering	Brick Testing	Private	3 Days	0.04
Dr.K.M.Gopalakrishnan	R.Krishnasamy	Civil Engineering	Non-Destructive Testing	Private	2 Days	0.02
Dr.K.M.Gopalakrishnan	Dr.S.Arulmozhi, M.Balaji	Civil Engineering	Material Testing	Private	3 Days	0.07
						Amount received (Rs.):2.60

Total amount (Lacs) received for the past 3 years: 20.11

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)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr.K.M.Gopalakrishnan	Exploring CoFe2O4/TiO2 NCs UV driven organic dye degradation	6 months	0.55	0.55	Publication in peer-reviewed journal
Dr.R.Krishnasamy	Failure investigation of Single Bolt Glass Fiber Reinforced Polymer angle member	6 months	0.51	0.51	Publication in peer-reviewed Conference journal
K.Vallarasu	Synergistic Photocatalytic activity of LaFeO3/TiO2 Nano composites for methylene blue degradation	6 months	0.55	0.55	Publication in peer-reviewed journal
J.Arun Prasad	Experimental Investigation on Mechanical Properties of Cenosphere Based Concrete	6 months	0.51	0.51	Publication in peer-reviewed Conference journal
			Amount received (Rs.): 2.12		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr.K.M.Gopalakrishnan	Application of Perovskite-Structured Lithium Titanate toward Remediation of Environmental Pollutants	6 months	0.58	0.58	Publication in peer-reviewed journal
Dr. S. Christian Johnson	Testing and evaluation of buckling and tensile performance of glass fiber reinforced polymer	6 months	0.55	0.55	Publication in peer-reviewed journal
M.Dhivakar Karthick	Encapsulation of combined bacterium in clay pellet and silica gel for the autogenous healing of	10 months	0.48	0.48	Publication in peer-reviewed journal
K.Vallarasu	ZnO heterojunction photocatalysts prepared via facile green synthesis process attaining improved	6 months	0.54	0.54	Publication in peer-reviewed journal
			Amount received (Rs.): 2.15		

(CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr. S. Christian Johnson	Experimental Investigation on Lateral Load Test on Diagonal Braced 3M Glass Fiber	10 months	0.60	0.60	Publication in peer-reviewed journal
R.Krishnasamy	Experimental Investigation on GFRP pultruded members and their connection behaviours	6 months	0.60	0.60	Publication in peer-reviewed journal
M.Dhivakar Karthick	Study on the Removal of Textile dyes using low cost adsorbents	6 months	0.31	0.31	Publication in Conference
Dr.S.Arulmozhi	Convective Evaporation System for Converting Wastewater into Salt	6 months	0.31	0.31	Publication in Conference
			Amount received (Rs.): 1.82		

Total amount (Lacs) received for the past 3 years : 6.09

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	Chemistry Laboratory	30	pH Meter, Conductivity meter, Potentiometer, UV Visible Spectrophotometer, Flame Photometer, Electrical Hot Air Oven	22 Hours	Mrs. S. Kalaivani	Lab Technician	B.Sc. Chemistry, B.Ed.
2	Problem Solving and Python programming Lab	30	Hardware : Wipro brand (Core i3, 4GB RAM, 500 GB HDD), Dot Matrix Printer Software : Ubuntu OS, Windows OS, Start UML, Argo UML, Visual Studio	12 Hours	Mrs. N. Nivetha	Lab Technician	B.Sc. (Computer Science)
3	Engineering Physics Laboratory	30	Spectrometer Travelling Microscope, Torsion Pendulum Uniform & Non- Uniform Bending setup, Fibre Optic kit, Diode Laser kit, Laser Disc, Ultrasonic Interferometer	22 Hours	Mrs. A. Poondhalir	Lab Technician	M.Sc. Physics
4	Engineering Practices Laboratory Group – A Civil & Mechanical	30	Assorted components for plumbing consisting of metallic pipes, plastic pipes, flexible pipes, couplings, unions, elbows, plugs and other fittings, Carpentry vice	30 Hours	Mr. M. Sudharsan	Lab Technician	B.E Mechanical
5	CADD Laboratory	30	Hardware : Acer (Intel Core i3, 4GB RAM, 500 GB HDD), Dot Matrix Printer Software : Windows OS, Auto CADD, STADD Pro, Revit Architecture	6 Sessions	Mr. S. Ramesh	Lab Technician	D Ted
6	Concrete and Highway Engineering Laboratory	30	Digital Compression Testing Machine, Fresh and Concrete Testing Equipments, Marshall Stability, Aggregate Testing Equipments	2 Sessions	Mr Suresh	Lab Technician	DCE
7	Environmental Engineering Laboratory	30	BOD Incubator, UV-spectrometer, Muffle Furnace, Hot Air Oven, Nephelometer, Dissolved Oxygen Analyzer, etc	8 Sessions	Mrs. P. Maheswari	Lab Technician	B.Sc. Chemistry
8	Hydraulic Engineering Laboratory	30	Pelton wheel turbine, Kaplan turbine, Francis turbine, Orifice meter, Venturi meter, Notch, Centrifugal pump, Submersible pump, Reciprocating pump, Gear pump	12 Sessions	Mr. M. Thuna vishwanath	Lab Technician	ITI

9	Strength of Material laboratory	30	UTM (40 Ton), Digital Torsion Testing Machine, Spring Testing Machine, Rockwell cum Brinell Hardness Tester, etc.	10 Sessions	Mr. M. Thuna vishwanath	Lab Technician	ITI
10	Soil Engineering laboratory	30	Direct shear, Triaxial apparatus, Consolidation Test, CBR Apparatus, etc.,	2 Sessions	Mr. S. Ramesh	Lab Technician	D Ted
11	Surveying Laboratory	30	Total Station, GPS, Theodolites, etc.,	8 Sessions	Ms. K. Nivetha	Lab Technician	B.E

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	CADD Laboratory	1. Students are restricted for the access of pen drive and usage of unnecessary websites. 2. Wear only prescribed uniform 3. Know the location of the fire extinguisher and the first aid box and how to use them in case of an emergency. 4. Report fires or accidents to your faculty/technician immediately. 5. Report any broken plugs or exposed electrical wires to your faculty/laboratory technician immediately. 6. Avoid stepping on electrical wires or any other computer cables. 7. Do not open the system unit casing or monitor casing particularly when the power is turned on. 8. Do not insert metal objects such as clips, pins and needles into the computer casings. They may cause fire. 9. Do not remove anything from the computer laboratory without permission. 10. Do not touch, connect or disconnect any plug or cable without your faculty/laboratory technician's permission. 11. Do not plug in external devices without scanning them for computer viruses.
2	Concrete and Highway Engineering Laboratory	1.Always wear safety shoes, to prevent the feet from injury. 2.Avoid wearing loose clothing, watch and rings while working 3.Always place the tools on the table with sharp edges facing away from you 4.Handle all sharp tools with Care. 5.Do not leave experiments running unattended. 6. Do not touch, connect or disconnect any plug or cable without your faculty/laboratory technician's permission. Never make any adjustments to a machine when it is in operation.
3	Environmental Engineering Laboratory	1.Avoid wearing loose cloth, watch and rings while working in lab. 2.Do not scatter around unwanted things while doing experiments. 3.Do not spill microorganism in the floor. 4.Do not allow chemicals to get contact with skin. 5.Handle microorganisms after wearing safety masks and gloves. 6.Never taste any chemicals. 7.Do not pour cold water for diluting concentrated acids. 8. Do not touch, connect or disconnect any plug or cable without your faculty/laboratory technician's permission. Do not throw match sticks, filter paper and other waste into sink.
4	Hydraulic Engineering Laboratory	1.Always maintain awareness of the surrounding activities and walk in aisles to the extent possible. 2.Maintain clean and orderly laboratories and work area. 3.Discard immediately unwanted items. 4.Make sure all spilled liquids are wiped up immediately. 5.Wear safety eyewear when needed. 6.Do not leave experiments running unattended. 7. Do not touch, connect or disconnect any plug or cable without your faculty/laboratory technician's permission. Use First Aid kit in case of emergency.
5	Strength of Material Laboratory	1.Students instructed not to wear loose clothing, watch and rings while working in the lab. 2.Equipment's only are operated after getting permission from the faculty charge Never bring hands close to sharp objects. 3.The availability of first aid kit in case of any emergency. 4. Never make any adjustments to a machine when it is in operation. Use sand buckets for fire safety. 5. Do not touch, connect or disconnect any plug or cable without your faculty/laboratory technician's permission.
6	Soil Mechanics Laboratory	1.The students are strictly instructed to wear shoes with rubber soles while working, concentrate on the job at hand. 2.The students use hand gloves for the mixing soil, handling the instruments and sand bucket used for fire safety. 3.The students are Wear/use approved protective equipment at all times and handle the equipment in proper manner. 4.Remove rings, watches and loose clothing, suitably confine long hair. 5. Know the location of the fire extinguisher and the first aid box in case of an emergency. 6. Do not touch, connect or disconnect any plug or cable without your faculty/laboratory technician's permission. The students are strictly instructed to don't touch any equipment with wet hand.
7	Surveying laboratory	1.Wear only Prescribed Uniform. 2.Handle the equipment in gentle 3.Wear shoes with rubber soles while working, concentrate on the job at hand. 4.Sign in the Equipment Register before taking the Equipment & after returning the same. 5.Check the Materials / Equipment while returning from the field. 6.Place the Equipment's in the appropriate place after the experiment. 7.Do not scatter around unwanted things while doing an experiment. 8.Never make any adjustments to a machine when it is in operation. Do not stretch the tape and chain.

D3. Project Laboratory/Research Laboratory

7.5.A. Availability of project laboratories / research laboratories

The Department has established dedicated Project and Research Laboratories to promote innovation, interdisciplinary research, consultancy activities, and experiential learning among undergraduate, postgraduate, and research scholars. These laboratories function beyond regular practical classes and provide advanced facilities to support student projects, funded research, and industry collaboration

Table No. 7.5.1: List of project laboratories/research laboratories

S. No.	Name of the Laboratory	Areas Supported
1.	Surveying Laboratory	• Land Surveying and Mapping • Topographical and Contour Survey • Route Alignment Studies (Highways & Railways) • Construction Layout and Setting Out
2.	Strength of Materials Laboratory	• Material Behavior Analysis • Stress–Strain Characteristics Study • Structural Design Verification • Flexural, Shear, and Torsion Testing
3.	Soil Engineering Laboratory	• Soil Classification and Identification • Shear Strength and Bearing Capacity Analysis • Foundation Design Studies • Consolidation and Settlement Analysis
4.	CADD Laboratory	• Computer-Aided Drafting and Design • Structural Analysis and Design • Building Information Modeling (BIM) • Project Planning and Scheduling
5.	Concrete and Highway Engineering Laboratory	• Concrete Mix Design and Testing • Compressive and Flexural Strength Evaluation • Pavement Material Testing • Bitumen and Asphalt Testing
6.	Environmental Engineering Laboratory	• Water Quality Analysis • Wastewater Treatment Studies • Environmental Impact Assessment • Pollution Control Monitoring

7.5.B. Availability of Centre of Excellence

The Centre of Excellence promote advanced learning, research, innovation, consultancy, and industry collaboration in emerging areas of Civil Engineering. The Centre functions as a specialized facility equipped with advanced infrastructure, modern software tools, and research-grade equipment to support students, faculty, research scholars, and industry professionals.

Table No. 7.5.2: List of Centre for Excellence and its Facilities

Centre for Excellence	Facilities
Structural Engineering	Rebound Hammer, Non-Destructive Testing (NDT) equipment, RCPT, UPV testing equipment's are available.
Geospatial Engineering	UAV/Drone for aerial mapping, GIS and Remote Sensing software (ArcGIS/QGIS), Digital Elevation Modelling (DEM) tools and spatial data processing facilities.

3 D Printing	3D Concrete Printer, advanced multi-material 3D printers capable of working with PLA, ABS, PETG, Carbon PETG, TPU, and other engineering-grade polymers, slicing software, CAD integration systems, material mixing units, robotic arm extrusion system, and rapid prototyping tools for infrastructure components.
Advance Computing Centre	Industry Specialised software's like STAAD Pro, ETABS, Revit Architecture, MS Project / Primavera are available.
Environmental Engineering	High end equipment's like Atomic Absorption Spectrophotometer (AAS), Ozone generator, Digital colony counter, Mini autoclave, Centrifuge are available



Fig:7.5.1 Loading Frame



Fig:7.5.2 Kerb Stone, Solid & Paver Block Manufacturing Machine

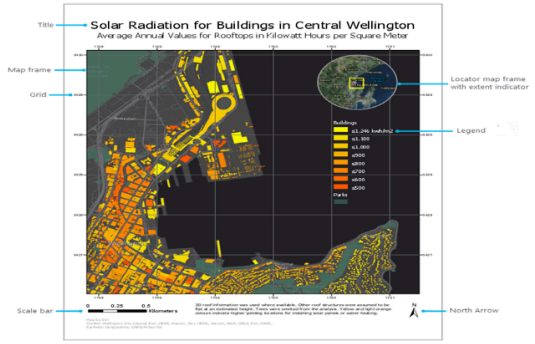


Fig:7.5.3 ArcGIS

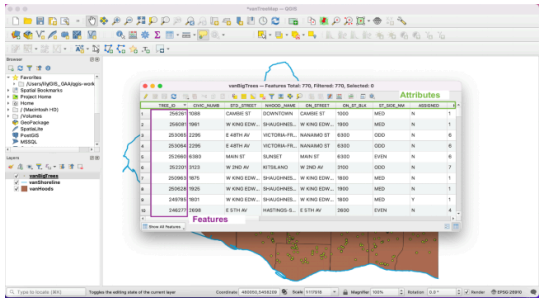


Fig:7.5.4 QGIS



Fig:7.5.6 3D Concrete Printer

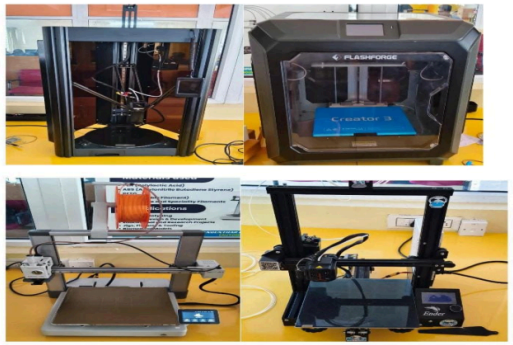


Fig:7.5.7 3D Printers



Fig:7.5.8 Atomic Absorption Spectrophotometer

7. 5. C. Utilization of Project laboratories/ Research laboratory / Centre of Excellence

The Civil Engineering Department ensures optimal and systematic utilization of its Project Laboratories, Research Laboratories, and Centre of Excellence (CoE) to enhance academic excellence, research productivity, consultancy engagement, and industry collaboration

Effective utilization has resulted in

S. No.	Utilization	Outcome
1	**Increased student project output**	• Undertake innovative mini and major projects • Develop prototype models and proof-of-concepts • Participate in hackathons, technical competitions, and funded student initiatives • Work on interdisciplinary and socially relevant projects

2	**Funded research grants**	• Facilitated submission of high-quality research proposals • Attracted grants from Government agencies, research councils, and industries • Supported pilot studies and preliminary investigations essential for funding approval • Enabled collaboration with national and international institutions
3	**Research publications and patents**	• Publications in indexed journals and reputed conferences • Filing of patents and intellectual property rights (IPR) • Development of technology prototypes and product innovations
4	**Consultancy revenue generation**	• Strengthened industry–institute collaboration • Enabled testing and certification services • Provided expert consultancy for infrastructure, product development, and process optimization • Generated revenue that can be reinvested in laboratory modernization
5	**Enhanced employability and industry readiness**	• Practical exposure to modern tools and technologies • Experience in solving real industrial problems • Teamwork, leadership, and project management skills • Understanding of industry standards, quality control, and safety practices

7. 5. D Relevance to POs/PSOs

Effective utilization of Project Laboratories, Research Laboratories, and Centres of Excellence directly supports the attainment of Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) by providing experiential learning, research exposure, and industry interaction. The mapping is elaborated below

Table No.7.5.1 List of projects done by students

2024-2025					
S. No.	**Name of the student(s)**	**Project Guide**	**Topic**	**Relevance to POs & PSOs**	**Outcomes**
1.	Manibharathi P Ragul R Rajabharath S Chottu Kumar	Dr.K.M. Gopalakrishnan	Exploring $CoFe_2O_4/TiO_2$ NCs for High efficiency UV driven organic dye degradation	PO1, PO2, PO3, PO4, PO5, PO7, PO9, PO10, PO11,PSO1, PSO2, PSO3	Paper Presented in Conference
2.	Shri Harini Veeramani Anishkumar Md Samim	Dr.S.Arulmozhi	Studies on the Treatment of Municipal Solid waste using Composting Techniques in Perundurai Dump yard	PO1, PO2, PO3, PO6, PO7, PO8, PO9, PO10, PO11, PSO1, PSO3	Paper Presented in Conference
3.	Harish Prasath M Palanikumar T Surender Kumar R	Mr.M. Dhivakar karthick	Sustainable Concrete Drain Covers with Fly Ash and Recycled Aggregate	PO1, PO2, PO3, PO4, PO5, PO7, PO9, PO10, PO11PSO1, PSO2, PSO3	Paper Presented in Conference

4.	Mythili Sivasundar Gokulsarathi	Dr.R.Krishnasamy	Failure Investigation of Single Bolt Glass Fiber Reinforced Polymer Angle Member with Gusset plate under Tensile loads	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11,PSO1, PSO2	Paper Presented in Conference
5.	Srinivasan S Dhanabalaji M R Dhanush M	Mr.J.Arun Prasad	Experimental Study on Cenosphere Based Concrete With Nano Coatings For Sustainability	PO1, PO2, PO3, PO4, PO5, PO7, PO9, PO10, PO11,PSO1, PSO2, PSO3	Paper Presented in Conference
6.	Balagoutham Sanjay Tamizhendi Anukumar	Mr.K.Vallarasu	Synergistic Photocatalytic Activity of $LaFe0_3/TiO_2$ Nano composites for methylene blue degradation under UV light	PO1, PO2, PO3, PO4, PO5, PO7, PO9, PO10, PO11,PSO1, PSO2, PSO3	Paper Presented in Conference
2023-2024					
1.	Kathiresan G Nilesh S Abhay Kumar	Dr.K.M.Gopalakrishnan	Application of Perovskite-Structured Lithium Titanate Toward Remediation of Environmental Pollutants	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PSO1, PSO2, PSO3	Paper Presented in Conference
2.	Vasantharajan S Subramani R Thamizhanban S	Dr.S.Arulmozhi	Manufacturing of Interlocking Concrete paving Blocks with fly ash and Waste Ceramic Tiles	PO1, PO2, PO3, PO4, PO6, PO7, PO9, PO10, PO11, PSO1, PSO3	Paper Presented in Conference
3.	Vinoth Raj A Gokul S Ankit Kumar	Dr. S. Chiristian Johnson	Development Of Lightweight Wall Paneles Using Cenospheres & Silica Fumes	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PSO1, PSO2, PSO3	Paper Presented in Conference
4.	Danish Kumar Gunaseelan S Arun Malu	Dr.S.Arulmozhi	Experimental Analysis Of Dye Degradation From Textile Industry Using Effective Bacterial Consortium	PO1, PO2, PO4, PO6, PO7, PO9, PO10, PO11, PSO1, PSO3	Paper Presented in Conference
5.	Selvam R Vijayabharathi P Rajesh S	Mr. J. Arun Prasad	Experimental Investigation Of Grillage Foundation Against Corrosion experimental Investigation Of Grillage Foundation Against Corrosion	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PSO1, PSO2	Paper Presented in Conference
6.	Manivel R Jai Suriya P Sibiraj V	Mr. R. Krishnasamy	Experimental Investigation On Gfrp Angle To Angal Connections With Non- Metallic Screws	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PSO1, PSO2	Paper Presented in Conference
7.	Saranya P Suresh D Thirupathi P Sabarish S	Mr. M. Dhivakar Karthick	Mechanical Investigation of Immobilized Bacteria in Cement concrete and Mortar Cube	PO1, PO2, PO3, PO4, PO6, PO7, PO9, PO10, PO11, PSO1, PSO3	Paper Presented in Conference

8.	Nanthakumar M Dinesh S Mithun D	Mr. K. Vallarasu	ZnO Heterojunction photo catalyst Prepared via Facile green synthesis process attaining improved Catalytic function for Degradation of methylene blue dye	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PSO1, PSO2, PSO3	Paper Presented in Conference
2022-2023					
1.	Gnanachandiran. Ganesh kumar.B Santhosh.M	Dr. K. M. Gopalakrishnan	Soil Stabilized Pavement Using Fly Ash, Bagasse Ash And Rice Husk Ash	PO1, PO2, PO3, PO4, PO5,PO6, PO7, PO8, PO9, PO10, PO11,PSO1,PSO2,PSO3	Paper Presented in Conference
2.	Chandravarnan MS Mohamed Rashith S Rishi T Vishnu K	Dr. A. Gopalan	An Experimental Study On Geopolymer Concrete Using Flyash And GGBS	PO1, PO2, PO3, PO4, PO5,PO6, PO7, PO9, PO10,PO11,PSO1,PSO2,PSO3	Paper Presented in Conference
3.	S Akash Dhanush Kumar R M Prasanth Sanjay C	Mr. R. Krishnasamy	Experimental Investigation On GFRP Pultruded Members And Their Connection Behaviours	PO1, PO2, PO3, PO4, PO5,PO7, PO9, PO10,PO11,PSO1,PSO2, PSO3	Paper Presented in Conference
4.	Hariharan R Robin M Thiyam Lanchenba Luwang Kishore G R	Mr. M. Dhivakar Karthick	Study On The Effect Of Lime Stabilization Of Sewage Sludge	PO1, PO2, PO3, PO4, PO5,PO6, PO7, PO9, PO10,PO11,PSO1,PSO2, PSO3	Paper Presented in Conference
5.	Ashok Pandian P Kanagaraj P Sunil Kumar A Vijay K	Mr. J. Arun Prasad	An Experimental Investigation Of Corrosion On Concrete Using Accelerating Corrosion	PO1, PO2, PO3, PO4, PO5,PO6, PO7, PO9, PO10,PO11,PSO1,PSO2, PSO3	Paper Presented in Conference

Funded research grants

Table No.7.5.2 List of research grants received by faculties

S. No.	PI name	Project title*	Name of the Funding agency	Relevance to POs and PSOs
1	Dr. R. Krishnasamy	Effects of GFRP bolt on the mechanical properties of GFRP angle connections used in Civil Construction	TNSCST	PO1, PO2, PO3, PO4, PO5, PSO1, PSO2

2	M.DhivakarKarthick	Potential application of novel microbe as an healent in cement	TNSCST	PO1, PO2, PO3, PO4, PO7, PSO1, PSO2
3	Dr.S.Arulmozhi	Advanced Oxidation process for the treatment of contaminant water with micro pollutants	TNSCST	PO1, PO2, PO3, PO4, PO7, PSO1, PSO2

Research Publications

Table No.7.5.3 List of research papers published by faculties

S. No.	Faculty name	Title of the Publications	Relevance to POs and PSOs
2025-2026			
1	Dr. K.M.Gopalakrishnan	Exploring $CoFe_2O_4/TiO_2$ NCs for High efficiency UV driven organic dye degradation	PO1, PO2, PO3, PO4, PO5, PO7, PSO1, PSO2
2	R.Krishnasamy	Failure Investigation of Single Bolt Glass Fiber Reinforced Polymer angle member with Gusset plate under tensile loads	PO1, PO2, PO3, PO4, PO5, PSO1, PSO2
3	K.Vallarasu	Synergistic Photocatalytic activity of $LaFeO_3/TiO_2$ Nano composites for methylene blue degradation under UV light	PO1, PO2, PO3, PO4, PO5, PO7, PSO1, PSO2
4	J.Arun Prasad	Flexural investigations on concrete beams partially replaced with Cenosphere and Silica Fume	PO1, PO2, PO3, PO4, PO5, PO7, PSO1, PSO2
2024-2025			
1	Dr. K.M.Gopalakrishnan	Application Of Perovskite-Structured Lithium Titanate Toward Remediation of Environmental Pollutants	PO1, PO2, PO3, PO4, PO5, PO7, PSO1, PSO2
2	K.Vallarasu	Enhanced Photocatalytic Degradation of Water Pollutants Using Bio - Green Synthesis of Zinc Oxide Nanoparticles (ZnoNps)	PO1, PO2, PO3, PO4, PO5, PO7, PSO1, PSO2
3	J.Arun Prasad	Studies on life extension measures against sub surface corrosion in overhead line supports, anchors and foundations	PO1, PO2, PO3, PO4, PO5, PO7, PSO1, PSO2
4	Dr. S. Christian Johnson	Testing and evaluation of buckling and tensile performance of glass fiber–reinforced polymer angle section with different joints/connections	PO1, PO2, PO3, PO4, PO5, PSO1, PSO2
2023-2024			

1	Dr. R.Krishnasamy	Experimental investigation on glass fiber reinforced polymer composite transmission tower with special reference connections	PO1, PO2, PO3, PO4, PO5, PSO1, PSO2
2	M.DhivakarKarthick	Evaluating microbial induced Self Healing behavior of bacterial strains and mechanisms for enhanced concrete durability	PO1, PO2, PO3, PO4, PO5, PO7, PSO1, PSO2
3	Dr.S.Arulmozhi	Assessment of urban river water quality using Water Quality Index and pollutant prediction modelling using ANN	PO1, PO2, PO3, PO4, PO5, PO7, PSO1, PSO2
4	Dr. S. Christian Johnson	Seismic Performance of RC Beam-Column joints Retrofitted with GFRP	PO1, PO2, PO3, PO4, PO5, PO7, PSO1, PSO2

Patents Publications

Table No.7.5.4 List of patents published by faculties

S.No	Name of the Faculty	Application/ Reg. number	Title	Status	Relevance to POs and PSOs
2025 - 2026					
1	Dr.K.M. Gopalakrishnan	474069-001	Design patent on "AI based ultrasonic pulse velocity tester for concrete"	Granted	PO1, PO2, PO3, PO4, PO5, PO12, PSO1, PSO2
2	Dr.S.Arulmozhi	202541090315 A	An IOT and Machine Learning based system for Automated E-Waste Sorting and Recycling in Smart Cities	Published	PO1, PO2, PO3, PO4, PO5, PO7, PO12, PSO1, PSO2
3	G.Janani	202511089917 A	Erosion Control Mat With Integrated Water Flow Regulation System	Published	PO1, PO2, PO3, PO4, PO7, PSO1, PSO2
4	G.Janani	202541095515 A	Machine Learning–Enabled IOT Framework for Smart Home Automation and Optimized Energy Consumption	Published	PO1, PO2, PO3, PO4, PO5, PO7, PO12, PSO1, PSO2
5	K.Vallarasu	202541101711 A	Machine Learning–Enabled 6G IOT System For Green EV Ecosystem And Real-Time Air Quality Analytics	Published	PO1, PO2, PO3, PO4, PO5, PO7, PO12, PSO1, PSO2
6	Mr.M.DhivakarKarthick	202521109825 A	Intelligent IOT–Machine Learning Framework for Environmental Pollution Control and Early Natural Disaster Detection	Published	PO1, PO2, PO3, PO4, PO5, PO7, PO12, PSO1, PSO2

7	Mr.J.Arun Prasad	202521106068 A	AI-Driven Machine Learning Framework for Real-Time Disaster Risk Assessment and Geographic Pattern Recognition	Published	PO1, PO2, PO3, PO4, PO5, PO7, PO12, PSO1, PSO2
2024 - 2025					
1	Dr.S.Arulmozhi	427774-001	Design Patent on "Internet of Things based Air Quality Monitoring Device"	Granted	PO1, PO2, PO3, PO4, PO5, PO7, PO12, PSO1, PSO2
2	Dr. K.M. Gopalakrishnan	202541024947 A	Herbal antibiotic tea composition with Coconut Leaf, ZingiberOfficinale, BorassusFlabellifer and ElettariaCardamomum for Blood Sugar Regulation	Published	PO1, PO2, PO3, PO4, PO7, PO12, PSO1
2023 - 2024					
1	K.Vallarasu	202341047868 A	Study and Analysis for development of Sustainable materials for construction of green building using Agricultural Residues	Published	PO1, PO2, PO3, PO4, PO7, PO12, PSO1, PSO2
2	Mr. M. Dhivakar Karthick	202441036156 A	Green Roof Systems for Urban Heat Island Mitigation	Published	PO1, PO2, PO3, PO4, PO7, PO12, PSO1, PSO2
2022 - 2023					
1	Dr.A.Gopalan	202241029001 A	Strength and resilience features of recycled aggregate concrete with admixtures	Published	PO1, PO2, PO3, PO4, PO7, PSO1, PSO2
2	Dr. K.M. Gopalakrishnan	202241030964 A	Multi-agent Topology for an Energy-efficient Building structure with Artificial intelligent	Published	PO1, PO2, PO3, PO4, PO5, PO7, PO12, PSO1, PSO2
3	Mr.M. Dhivakar Karthick	202241030743 A	Safety management system for construction site workers	Published	PO1, PO2, PO3, PO4, PO6, PO8, PO12, PSO1
4	Dr.S.Arulmozhi	202211071427 A	Machine learning based approach to predict the importance of bioenergy systems that are based on anaerobic digestion and fermentation techniques	Published	PO1, PO2, PO3, PO4, PO5, PO7, PO12, PSO1, PSO2
5	Mr.J.Arun Prasad	202341019979 A	Earthquake early prediction and warning system in smart cities based on deep learning and IOT	Published	PO1, PO2, PO3, PO4, PO5, PO7, PO12, PSO1, PSO2

Student’s achievements based on project

Academic Year 2024-2025

- Balagoutham P and Vinay Kumar from III and IV Year Civil Engineering have successfully participated in the CAD Contest at the National Level Technical Symposium *Kallikrates24* held at KPR Institute of Engineering and Technology, Coimbatore on 24.10.2024.
- Aravindh P from III Year Civil Engineering has successfully participated in *STRUCTOCAD* at the National Level Technical Symposium *CEANS 2025* held at Kongu Engineering College, Erode on 07.03.2025.

Academic Year 2023-2024

- S. Dinesh and S. Vasantharajan from IV Year Civil Engineering have successfully participated in the CADD Contest conducted at Velalar College of Engineering and Technology, Erode on 07.10.2023 at the National Level.

Academic Year 2022-2023

- D. Mithun from III Year Civil Engineering has successfully participated in the Bridge Modelling event conducted at SRM Institute of Science and Technology.
- C. Sanjay from IV Year Civil Engineering has successfully participated in the CAD – Modelling event at P.A. College of Engineering and Technology on 01.03.2023 at the National Level.

Prototype Development

Table No.7.5.5 Faculty Research Activities and Prototype Development Supporting Student Projects

S. No	Title of the Prototype or Working Model	Description	Lab
1	Flexible vs Rigid Pavement	· Demonstrates load distribution through layered pavement structure where stresses decrease with depth due to flexible surface action. · Illustrates load transfer through a concrete slab that distributes wheel loads over a wide area due to its high flexural strength.	Concrete and Highway Lab
2	Truss Bridge	Shows how interconnected triangular members efficiently transfer loads through tension and compression forces.	Strength of Materials Lab
3	Flood Early Warning System	Simulates real-time water level monitoring and alert mechanisms to reduce flood risk and disaster impact.	IOT Lab
4	Earthquake-Resistant Building	Demonstrates structural techniques like base isolation and bracing to minimize seismic damage.	Strength of Materials Lab
5	Smart Traffic Control System	Represents sensor-based automated signal control to optimize traffic flow and reduce congestion.	IOT Lab
6	Working Wastewater Treatment Plant	Illustrates sequential physical, biological, and chemical processes used to treat sewage before safe discharge.	Environmental Engineering Lab
7	Rainwater Harvesting System	Demonstrates collection, filtration, and storage of rooftop rainwater for sustainable water management.	Environmental Engineering Lab

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)	1140	57	44	19	68
2024-25(CAYm1)	1440	72	50	22	62
2025-26(CAY)	1530	76	57	21	66

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	265000000	251988999	250000000	225294703	175000000	159757851	132000000	118157265
Library	2250000	1799815	1780000	1269047	1661000	1292799	1470000	1373170
Laboratory equipment	15250000	12212372	42000000	36615624	17900000	17864447	24750000	20848397
Teaching and non-teaching staff salary	210000000	205917277	172400000	163742912	122100000	119034857	107000000	98685697
Outreach Programs	1350000	1294219	1800000	1638025	1000000	800730	3000000	2641751
R&D	16000000	14679745	12400000	11904352	10550000	9937090	5335000	4749606
Training, Placement and Industry linkage	3700000	3583438	4725000	3790981	4605000	4048026	3275000	2351019
SDGs	16000000	15810939	10070000	9919802	8185000	7964860	6210000	5835394
Enterpreneurship	1800000	1756270	700000	597217	300000	247317	150000	97363
Others, specify	180845000	164789030	157690000	149870896	145475000	125798143	102295000	96045147
Total	**712195000**	**673832104**	**653565000**	**604643559**	**486776000**	**446746120**	**385485000**	**350784809**

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
Laboratory equipment	600000	528706	2700000	2695032	1600000	1472123	1800000	1708827

Software	275000	273401	252000	251979	200000	187779	200000	185135
SDGs	350000	330014	225000	219642	200000	166203	160000	154569
Support for faculty development	250000	217461	225000	168654	200000	196332	200000	193089
R & D	625000	611903	2500000	2357796	750000	721572	150000	148308
Industrial Training, Industry expert, Internship	200000	174795	200000	183939	250000	216962	250000	212274
Miscellaneous Expenses*	16035000	15464191	15525000	15290467	15520000	15289538	12770000	12443624
Total	**18335000**	**17600471**	**21627000**	**21167509**	**18720000**	**18250509**	**15530000**	**15045826**