

## 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> : 1
<b>Application No</b> : 11540	<b>Date of Submission</b> : 20-02-2026

### PART A- Profile of the Institute

<b>A1. Name of the Institute:</b> R.M.K.ENGINEERING COLLEGE	
Year of Establishment : 1995	Location of the Institute: Kavaraipeitai
<b>A2. Institute Address:</b> R.S.M.NAGAR,KAVARAIPETTAI,GUMMIDIPOONDI TALUK,TIRUVALLUR DIST-601206.	
City:Tiruvallur	State:Tamil Nadu
Pin Code:601206	Website:WWW.RMKEC.AC.IN
Email:PRINCIPAL@RMKEC.AC.IN	Phone No(with STD Code):044-67906790
<b>A3. Name and Address of the Affiliating University (if any):</b>	
Name of the University : ANNA UNIVERSITY, CHENNAI	City: Chennai
State : Tamil Nadu	Pin Code: 600025
<b>A4. Type of the Institution:</b> Autonomous CAY(2020-21)	
<b>A5. Ownership Status:</b> Self financing	

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

- No. of UG programs: 11
- No. of PG programs: 3

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	Engineering & Technology	UG	Artificial Intelligence and Data Science	2020	--	Artificial Intelligence and Data Science
2	Engineering & Technology	UG	Civil Engineering	2006	--	Civil Engineering
3	Engineering & Technology	UG	Computer Science and Business System	2020	--	Computer Science and Business System
4	Engineering & Technology	UG	Computer Science and Design	2021	--	Computer Science and Design
5	Engineering & Technology	UG	Computer Science and Engineering	1997	--	Computer Science and Engineering
6	Engineering & Technology	PG	Computer Science and Engineering	2004	--	Computer Science and Engineering
7	Engineering & Technology	UG	Electrical and Electronics Engineering	1995	--	Electrical and Electronics Engineering
8	Engineering & Technology	UG	Electronics & Communication Engineering	1995	--	Electronics and Communication Engineering

9	Engineering & Technology	UG	Electronics and Communication (Advanced Communication Technology)	2023	--	Electronics and Communication (Advanced Communication Technology)
10	Engineering & Technology	UG	Electronics Engineering (VLSI Design and Technology)	2023	--	Electronics Engineering (VLSI Design and Technology)
11	Engineering & Technology	UG	Information Technology	1999	--	Information Technology
12	Engineering & Technology	UG	Mechanical Engineering	1995	--	Mechanical Engineering
13	Engineering & Technology	PG	Power Electronics and Drives	2005	--	Electrical and Electronics Engineering
14	Management	PG	Master of Business Administration	2025	--	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
Computer Science and Business System	Yes	Computer Science and Business System	UG
Artificial Intelligence and Data Science	Yes	Artificial Intelligence and Data Science	UG
Civil Engineering	No	Civil Engineering	UG
Electrical and Electronics Engineering	No	Electrical and Electronics Engineering	UG
Mechanical Engineering	No	Mechanical 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 APPROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Civil Engineering	UG	2006 / --	40	Yes	2021	30	2021	Southern/1-9322938194/2021/EOA Dt. 10.07.2021	Granted accreditation for 3 years for the period (specify period)	2023	2026	3	4

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	PROGRAM DURATION
<b>Sanctioned Intake for Last Five Years for the Civil Engineering</b>														
<b>Academic Year</b>			<b>Sanctioned Intake</b>											
2025-26			30											
2024-25			30											
2023-24			30											
2022-23			30											
2021-22			30											
2020-21			60											

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. L. Andal
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	60	60
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	30	22	20	23	20	34	40
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	1	4	1	5	3	3
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	1	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.	31	23	24	24	25	37	43

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	30	1	103.33
2024-25 (CAYm1)	30	22	0	73.33
2023-24 (CAYm2)	30	20	0	66.67

Average  $[(ER1 + ER2 + ER3) / 3] = 81.11 \approx 17.00$

#### 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).	35.00	63.00	63.00
B=No. of students who graduated from the program in the stipulated course duration	20.00	30.00	42.00
Success Rate (SR)= (B/A) * 100	57.14	47.62	66.67

Average SR of three batches  $((SR_1 + SR_2 + SR_3)/3)$ : 57.14

#### 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)	7.90	7.87	7.87
Y=Total no. of successful students	22.00	20.00	23.00
Z=Total no. of students appeared in the examination	22.00	20.00	23.00
API $[X*(Y/Z)]$	7.90	7.87	7.87

Average API  $[(AP1+AP2+AP3)/3]$  : 7.88

#### 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)	8.11	8.21	8.15
Y=Total no. of successful students	22.00	24.00	25.00
Z=Total no. of students appeared in the examination	24.00	24.00	25.00
API $[X * (Y/Z)]$	7.43	8.21	8.15

Average API  $[(AP1 + AP2 + AP3)/3]$  : 7.93

#### 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)	8.22	8.42	8.15
Y=Total no. of successful students	24.00	25.00	36.00

Z=Total no. of students appeared in the examination	24.00	25.00	36.00
API [ X*(Y/Z) ]:	8.22	8.42	8.15

Average API [ (AP1 + AP2 + AP3)/3 ] : 8.26

#### 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	35.00	63.00	63.00
X=No. of students placed	17.00	26.00	29.00
Y=No. of students admitted to higher studies	5.00	8.00	13.00
Z= No. of students taking up entrepreneurship	3.00	2.00	1.00
Placement Index(P) = $((X + Y + Z)/FS) * 100$ :	71.43	57.14	68.25

Average Placement Index =  $(P_1 + P_2 + P_3)/3$ : 65.61 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. L. Andal	XXXXXXXX15K	Ph.D	Anna University	Structural Engineering	10/06/2024	1.7	Professor	Professor	10/06/2024	Regular	Yes		Yes
2	Dr. Binu Sukumar	XXXXXXXX52G	Ph.D	Anna University	Structural Engineering	05/02/2009	16.5	Professor	Professor	05/02/2009	Regular	No	02/08/2025	No
3	Dr. A. Hemamathi	XXXXXXXX69F	Ph.D	Anna University	Structural Engineering	14/02/2007	18.11	Lecturer	Associate Professor	02/01/2016	Regular	Yes		No
4	Dr. P. Joyson Silva	XXXXXXXX50G	Ph.D	Anna University	Structural Engineering	20/06/2012	13.7	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Mr. P. Ramshankar	XXXXXXXX18R	M.E.	Anna University	Infrastructure Engineering	26/06/2013	12.7	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Mr. R. Arun Prathap	XXXXXXXX38C	M.E.	Anna University	Hydrology and Water Resources Engineering	03/06/2014	11.8	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Ms. R Aishwarya	XXXXXXXX98D	M.E.	Anna University	Geoinformatics	23/05/2016	9.8	Assistant Professor	Assistant Professor		Regular	Yes		No

8	Mr. S.P.Kanniyappan	XXXXXXXX05L	M.E.	Anna University	Construction Engineering & Management	21/06/2018	7.7	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Dr. T. Murali Krishna	XXXXXXXX66E	Ph.D	Anna University	Hydrology and Water Resources Engineering	06/06/2012	12	Associate Professor	Professor	01/12/2021	Regular	No	29/06/2024	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 Department1 No. of PG Programs in the Department0

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	31	33	31
UG1.C	33	31	33
UG1.D	31	33	63
<b>UG1: Civil Engineering</b>	<b>95</b>	<b>97</b>	<b>127</b>
DS=Total no. of students in all UG and PG programs in the Department	95	97	127
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= 95</b>	<b>S2= 97</b>	<b>S3= 127</b>
DF=Total no. of faculty members in the Department	7	8	8
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= 7</b>	<b>F2= 8</b>	<b>F3= 8</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= 13.57</b>	<b>SFR2= 12.13</b>	<b>SFR3= 15.88</b>
Average SFR for 3 years	<b>SFR= 13.86</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)	3	4	4.00	28.75
2024-25(CAYm1)	3	5	4.00	31.25
2023-24(CAYm2)	3	5	6.00	20.83

### 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	1.00	1.00	3.00	5.00
2024-25	1.00	2.00	1.00	1.00	3.00	5.00
2023-24	1.00	2.00	1.00	1.00	4.00	5.00
Average	RF1=1.00	AF1=1.67	RF2=1.00	AF2=1.00	RF2=3.33	AF2=5.00

### 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 L Ponraj Sankar	Structural Consultant	-	20CE811R Project Work	50.00
2	Mr Venkataraman S	BIM Engineer	COWI India Pvt Ltd	22CE611 BIM Lab - I	30.00
3	Mr Venkataraman S	BIM Engineer	COWI India Pvt Ltd	22CE711 BIM Lab - II	30.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr L Ponraj Sankar	Structural Consultant	-	20CE811 Project Work	50.00
2	Mr Venkataraman S	BIM Engineer	COWI India Pvt Ltd	20CE612 Building Information	30.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr L Ponraj sankar	Structural Consultant	-	20CE811 Project Work	50.00
2	Mr Venkataraman S	BIM Engineer	COWI India Pvt Ltd	20CE612 Building Information	30.00

#### 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	4	15
2	No. of peer reviewed conference papers published	11	4	4
3	No. of books/book chapters published	2	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.L.Andal		Civil Engineering	Indigenization of Design and Manufacture of Magnesium Oxide Board for Rapid and Affordable House Construction	DST/TDT/TDP	3 years	48.24
						Amount received (Rs.):48.24

(CAYm2)

(CAYm3)

**Total Amount (Lacs) Received for the Past 3 Years: 48.24**

**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 Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes.	Madharapakkam Panchayat	2 Weeks	0.04
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes.	Madharapakkam Panchayat (Gandhi 3rd street)	2 Weeks	0.04
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes.	Madharapakkam Panchayat (Gandhi 4th street)	2 Weeks	0.04
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes.	Madharapakkam Panchayat (Viniyanayagam street)	2 Weeks	0.04
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of AAC Blocks	NGB Infra	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Paver blocks	Egumadurai Panchayat (Amman kovil street)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Paver blocks	Egumadurai Panchayat (Irulur Colony)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Paver blocks	Egumadurai Panchayat (Appayapalayam Village cross st)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Paver blocks	Egumadurai Panchayat (Mettu colony)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes.	Egumadurai Panchayat (Appayapalayam main street)	2 Weeks	0.04
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes and bricks.	Gummidipoondi (Egumadurai Panchayat)	2 Weeks	0.06
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Paver blocks	Pudhuvoyal Panchayat (Ekkalmedu street)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes and bricks. Evaluation of tensile strength of steel rods.	Gummidipoondi (Palavakkam Panchayat)	2 Weeks	0.08
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes. Evaluation of tensile strength of steel rods.	Gummidipoondi (Kilmuthalambedu Panchayat)	2 Weeks	0.09
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Paver blocks	Soorapoondi Panchayat (Ramachadarapuram Vallar Nagar 1st street)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Paver blocks	Soorapoondi Panchayat (Soorapoondi Village School Road)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Paver blocks	Soorapoondi Panchayat (Soorapoondi colony Mallipoo street)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Paver blocks	Soorapoondi Panchayat (Ramachadarapuram Vallar Nagar 2nd street)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Paver blocks	Soorapoondi Panchayat (Ramachadarapuram Thiruvottiyur Kudi Irupe 1st street)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Paver blocks	Soorapoondi Panchayat (Ramachadarapuram St Colony Cross street)	1 Week	0.02

Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes. Evaluation of tensile strength of steel rods.	Gummidipoondi Panchayat (Pethikuppam Panchayat)	2 Weeks	0.08
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes. Evaluation of tensile strength of steel rods.	Minjur Panchayat	2 Weeks	0.07
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Steel rods.	Minjur Panchayat	2 Weeks	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Steel rods.	Ellapuram Panchayat	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Sieve analysis and Fineness of M-sand	Gummidipoondi Panchayat	1 Week	0.01
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Sieve analysis and Fineness of M-sand	J Ramesh Contractor	1 Week	0.01
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Water absorption and Compressive strength of Flyash bricks.	Sai Agency	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Water absorption and Compressive strength of Flyash bricks.	RDR Enterprises	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Water absorption and Compressive strength of Solid blocks.	Gummidipoondi (Maanalore Panchayat)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Paver blocks.	Dheekshu Enterprises	1 Week	0.03
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Paver blocks.	Poovalai Panchayat (Perumal Kovil 2nd Street)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Paver blocks.	Poovalai Panchayat (Thandalam Colony 3rd Street)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Paver blocks.	Poovalai Panchayat (Thandalam Colony 5th Street)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes. Evaluation of tensile strength of steel rods.	Poovalai Panchayat (Poovalai village)	2 Weeks	0.10
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes.	Poovalai Panchayat (ST Irulur Colony)	2 Weeks	0.06
Dr L Andal		Civil Engineering	Structural Design and Detailing for Residential Complex	Desire's Cut	1 Month	0.60
Dr A Hemamathi		Civil Engineering	Structural Design and Detailing of a Residential Complex	Sr Hari	1 Month	0.55
Dr Binu Sukumar		Civil Engineering	Structural Design and Detailing of a Commercial complex	RP Constructions	1 Month	0.55
						Amount received (Rs.):2.89

(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 Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Solid concrete blocks.	NGB Infra	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi (Sithalakuppam, SR Kandigai Panchayat)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks & Concrete cubes.	Gummidipoondi (Pudugummidipoondi Panchayat)	2 Weeks	0.04
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks & Concrete cubes. Evaluation of Tensile strength of Steel rods.	Ellapuram (Boochiathibedu Panchayat)	2 Weeks	0.08
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Flyash Bricks	SNJ India Glasses	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi (Sinathalakuppam, SR Kandigai Panchayat)	1 Week	0.01
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi (Pallavada Panchayat)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi (Pathapalayam Panchayat)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes.	Gummidipoondi (Pathapalayam Panchayat)	2 Weeks	0.04
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks & Concrete cubes. Evaluation of Tensile strength of Steel rods.	Gummidipoondi (Mukkarambakkam Panchayat)	2 Weeks	0.08
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes.	Gummidipoondi (Pathapalayam Panchayat)	2 Weeks	0.05
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi (Anjanayar Kovil street Karadiputhur Panchayat)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi (Anjanayar Kovil street Karadiputhur Panchayat)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes and Bricks.	Gummidipoondi (Eguvarapalayam Panchayat)	2 Weeks	0.06
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes and Bricks.	Gummidipoondi (Mukkarambakkam Panchayat)	2 Weeks	0.05
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes and Bricks.	Gummidipoondi (Kannankottai Panchayat)	2 Weeks	0.05
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of AAC Blocks.	NGB Infra	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of AAC Blocks.	NGB Infra	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of AAC Blocks.	NGB Infra	1 Week	0.02
Dr Binu Sukumar		Civil Engineering	Structural design and detailing of Residential building	RP Constructions	1 Month	0.55

Dr A Hemamathi		Civil Engineering	Structural design and detailing of Residential complex	Sri Hari	1 Month	0.60
						Amount received (Rs.):1.81

(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 Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Thervali Panchayat Union	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Mukkirambakkam Panchayat Union	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Concrete cubes.	Arambakkam Panchayat Union	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Thokkamur Panchayat	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	R.D.S. Hollow Blocks and Flyash Bricks	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes	Ellapuram Panchayat Union	2 Weeks	0.08
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Arambakkam Panchayat Union	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Arambakkam Panchayat Union (M.R. Kandigai, Pattaikuppam, Chekkumedu)	1 Week	0.05
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Sivaram Reddy contractor	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Concrete cubes	Nemalur Panchayat	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes	Ellapuram Panchayat Union	2 Weeks	0.08
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes	Ellapuram Panchayat Union	2 Weeks	0.08
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Concrete cubes	Nemalur Panchayat	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	R.D.S. Hollow Blocks and Flyash Bricks	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes	Arambakkam Panchayat Union	2 Weeks	0.06
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes. Evaluation of Tensile strength of Steel rods.	Arambakkam Panchayat Union (Naltrayan Kandigai)	2 Weeks	0.09
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks. Evaluation of Tensile strength of Steel rods.	Ellapuram Panchayat Union (Kannigaipair Panchayat)	2 Weeks	0.09
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks. Evaluation of Tensile strength of Steel rods.	Ellapuram Panchayat Union (Kilambakkam Panchayat)	2 Weeks	0.09
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks. Evaluation of Tensile strength of Steel rods	Ellapuram Panchayat Union (Panayancheri Panchayat)	2 Weeks	0.09
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks. Evaluation of Tensile strength of Steel rods.	Ellapuram Panchayat Union (Sethupakkam Panchayat)	2 Weeks	0.09

Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Concrete cubes	Siruvada Panchayat	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks. Evaluation of Tensile strength of Steel rods.	Ellapuram Panchayat (Pagalmedu)	2 Weeks	0.09
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks. Evaluation of Tensile strength of Steel rods.	Minjur Panchayat	2 Weeks	0.09
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi (Pondavakkam Panchayat)	1 Week	0.03
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Nemalur Panchayat (NS Nagar OHT Tank)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Nemalur Panchayat (Kamarajar Nagar)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Nemalur Panchayat (Indhira Gandhi Nagar)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi Panchayat (Pudupalayam Perumal kovil)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi Panchayat (Pudupalayam New II street)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi Panchayat (Pudupalayam Colony)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi Panchayat (Pudupalayam Chettiyar street)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks & Concrete cubes. Evaluation of Tensile strength of Steel rods.	Ellapuram Panchayat (Athupakkam)	2 Weeks	0.09
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi Panchayat (Sanaputhur)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi Panchayat (Sanaputhur)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Mukkirambakkam Panchayat Union	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks & Concrete cubes. Evaluation of Tensile strength of Steel rods.	Ellapuram Panchayat (Thumbakkam)	2 Weeks	0.09
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks & Concrete cubes. Evaluation of Tensile strength of Steel rods.	Ellapuram Panchayat (Enambakkam)	2 Weeks	0.09
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi Panchayat (Mangalam Colony)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi Panchayat (OSR Land-Perumalpettai)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Solid concrete blocks.	NGB Infra	1 Week	0.03
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Civil Engineering	1 Week	0.02

Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Concrete cubes.	Gummidipoondi Panchayat Report	2 Weeks	0.04
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks & Concrete cubes. Evaluation of Tensile strength of Steel rods.	Gummidipoondi (Kannankottai Panchayat)	2 Weeks	0.09
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks & Concrete cubes. Evaluation of Tensile strength of Steel rods.	Ellapuram (Komakkambedu Panchayat)	2 Weeks	0.10
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi -Eguvarapalayam Panchayat (ST Colony Cross street)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi -Melakazhani Panchayat (ST Colony Main Street)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of a Paver blocks.	Gummidipoondi -Melakazhani Panchayat (Yadhavar Street)	1 Week	0.02
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks & Concrete cubes.	Ellapuram (Thamaraipakkam Panchayat)	2 Weeks	0.04
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks & Concrete cubes. Evaluation of Tensile strength of Steel rods.	Ellapuram (Sethupakkam Panchayat)	2 Weeks	0.08
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Test on Properties of Cement, Sand, Aggregate and Evaluation of Compressive strength of Bricks & Concrete cubes. Evaluation of Tensile strength of Steel rods.	Ellapuram (Ayilacheri Panchayat)	2 Weeks	0.08
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Fly Ash Bricks	Birla Carbon India Private Limited	1 Week	0.03
Dr Binu Sukumar	Mr P Ramshankar	Civil Engineering	Evaluation of Compressive strength of Bricks	SNJ India Glasses	1 Week	0.02
						Amount received (Rs.):2.33

**Total amount (Lacs) received for the past 3 years: 7.03**

**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)**

<b>Faculty name</b>	<b>Project title/ Support for Activity</b>	<b>Duration of the project</b>	<b>Amount(Lacs) i.e. 15,25,000=15.25</b>	<b>Amount Utilized(Lacs) i.e. 15,25,000=15.25</b>	<b>Outcomes of the project</b>
Ms. R. Aishwarya	License of ArcGIS software for the GIS and Smart Cities Centre of Excellence	1 Year	57820.00	57820.00	Publication of Paper and Received Best Project Award
			Amount received (Rs.): 57820.00		

(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
Ms. R. Aishwarya	License of ArcGIS software for the GIS and Smart Cities Centre of Excellence	1 Year	57820.00	57820.00	Publication of Paper and Received Best Project Award
Mr R Arun Prathap	Small and Medium UAV Pilot Training	2 Weeks	70800.00	70800.00	Conducting Training for Students and Faculties
			Amount received (Rs.): 128620.00		

(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
Ms. R. Aishwarya	License of ArcGIS software for the GIS and Smart Cities Centre of Excellence	1 Year	50091.00	50091.00	Publication of Paper and Received Best Project Award
Ms. R. Aishwarya	Drone Surveying and Mapping	2 Weeks	29500.00	29500.00	Guide Students Project, Publication of Paper and Received Best Project Award
			Amount received (Rs.): 79591.00		

Total amount (Lacs) received for the past 3 years : 266031.00

## 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	Computer Aided Design & Drafting Laboratory	30	Intel i7 computer, AutoCAD, STAAD.Pro V8i, ETABS, SAP2000, Revit, Navisworks	8 hours / week	Mr. K. Hari Krishnan	Lab Technician	ITI
2	Surveying Laboratory	30	Total Station (3), GPS (3), Theodolite (12), Auto Levels, Plane Tables, Chains	2 hours / Week	Mr. M. Promoth Chowdry	Lab Technician	DCE
3	Strength of Materials Laboratory	30	Electronic UTM (100T), Torsion Machine, Impact Testers, Hardness Testers	4 hours / Week	Mr. G. Murali	Lab Technician	ITI
4	Fluid Mechanics & Hydraulics Laboratory	30	Bernoulli Apparatus, Open Channel Flow Setup, Pumps, Turbines, Pipe Friction Setup	4 hours / Week	Mr. R. Hari Krishnan	Lab Technician	ITI
5	Geotechnical Engineering Laboratory	30	Triaxial Apparatus, Direct Shear, Consolidation, Sieve Shaker	2 hours / Week	Mr. R. Hari Krishnan	Lab Technician	ITI

6	Concrete & Highway Engineering Laboratory	30	CTM (300kN), Marshall Stability, LA Abrasion, Ductility, CBR	4 hours / Week	Mr. G. Murali	Lab Technician	ITI
7	Environmental Engineering Laboratory	30	BOD Incubator, COD Digestor, pH Meter	2 hours / Week	Mr. M. Promoth Chowdry	Lab Technician	DCE

## D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Surveying Laboratory	First Aid kit & Fire Extinguishers, Lab Coat for students. Mandatory instructions.
2	CADD Laboratory	Fire Extinguishers, Antivirus for computer systems, UPS for power interruption. Mandatory instructions.
3	Strength of Materials Laboratory	First Aid kit & Fire Extinguishers. Earthing done for major equipments, Leather shoes for Boys and Girls, Mandatory instructions.
4	Fluid Mechanics Laboratory	First Aid kit & Fire Extinguishers. Earthing done for major equipments, Mats provided, leather shoes and lab coats for Boys and Girls, Mandatory instructions.
5	Concrete and Highway Laboratory	First Aid kit & Fire Extinguishers, leather shoes and lab coats for Boys and Girls, Mandatory instructions.
6	Geotechnical Engineering Laboratory	First Aid kit & Fire Extinguishers, leather shoes and lab coats for Boys and Girls, Mandatory instructions.
7	Environmental Engineering Laboratory	Gloves, First Aid kit & Fire Extinguishers, lab coats, Safety Charts, Mandatory instructions.

## D3. Project Laboratory/Research Laboratory

### 7.5.A. Availability of project laboratories/research laboratories

The Civil Engineering Department has established dedicated facilities to promote research culture, innovation, consultancy, and industry-oriented project development. These facilities go beyond routine curriculum laboratories and support advanced simulation, interdisciplinary learning, and technology-enabled infrastructure planning.

**Table 7.5.1: Project & Research Lab Facilities**

S. No	Facility	Description
1	Project Laboratory	Dedicated workspace with computing systems, modeling tools, internet access, testing support, and prototype development facilities for UG projects.
2	Research Laboratory	24/7 high-performance remote desktop environment with simulation software and analytical tools for structural, geotechnical, environmental, and transportation research.

#### ***Dedicated Project Laboratory***

The department provides a **separate project laboratory space** to facilitate undergraduate capstone projects.

Facilities Available:

- Internet-enabled computer systems
- Structural and infrastructure modeling tools
- Data analysis software
- Access to laboratory testing equipment
- Extended working hours during project phase

Academic Impact:

- Enables project-based learning aligned with PO3 (Design & Development).
- Encourages team-based problem solving.
- Supports prototype validation and simulation-based design.
- Enhances industry readiness and employability.



Dedicated Project Laboratory

#### Research Laboratory – Advanced Computing Facility

To promote simulation-driven research and consultancy, the department provides a **dedicated 24/7 remote desktop computing facility**.

#### Infrastructure:

- High-performance Intel i9 processor-based system
- 16 GB RAM configuration
- Dedicated graphics processing support
- High-speed connectivity

#### Software Ecosystem:

- Structural analysis and finite element tools
- Geotechnical modeling software
- Environmental Impact Analysis – LCA Software
- GIS and spatial analysis tools
- Data processing and visualization applications
- Bently Open Street
- Bently LumenRT rendering Software

#### Unique Features:

- Round-the-clock accessibility

- Remote access capability
- Supports funded research and consultancy
- Facilitates computationally intensive capstone projects

Measurable Outcomes:

- Sanction of funded research projects.
- Enhanced consultancy capability.
- Increased number of simulation-based projects.
- Strengthened attainment of PO5 (Modern Tool Usage).

**Table 7.5.2: Details of Funded Research Projects.**

<b>Date Sanction / Completion</b>	<b>Project Title</b>	<b>Funding Agency</b>	<b>Amount</b>	<b>Principal Investigator</b>
20.05.2025	Indigenization of Design and Manufacture of Magnesium Oxide Board for Rapid and Affordable House Construction grant of Rs. 27.2 lakhs.	DST (Department of Science & Technology)	Rs. 48 Lakhs	Dr. L. Andal
31.07.2025	Development of Digital Formwork Pressure Monitoring System using Sensors for a grant of Rs. 27.2 lakhs.	DST(Department of Science & Technology)	Rs. 27Lakhs	Dr. Binu Sukumar & Dr.A.Hemamathi

**Major Equipment available for Project / Research Work**



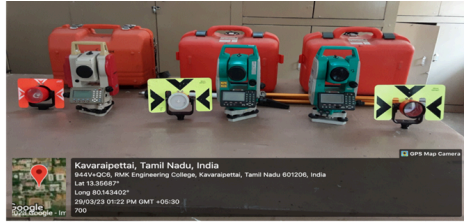
**Servo Controlled Universal Testing Machine – 100 Ton**



**Data Acquisition System**  
(16 Channel-microcontroller based temperature data logger- Model AA-1600D- RTDPT-100/4-20mA for Pressure, stress and strain transmitter)



**Load Cell (S-Type, 750 kg capacity); Load Indicator (0-50T); Strain Indicator (Sysco strain measurement, 3 channel, 0-10000 micro strain)**



1). SOKKIA – SET 520 K, Resolution:30x / 3", Memory Storage:10,000 points, additionally supports flash memory 2). SOKKIA – SET 510 K, Telescope Magnification: 30X, Display Resolution (selectable) H & V: 17.5" x 2.1"img. 0.005/0.02mil. Accuracy: 5". 3).KOLLIDA – KTS-442L- Minimum reading 0.17/17.5", Accuracy 2", Magnification 30 x



Vane Shear Apparatus  
(Dimensions H = 620 mm; W = 250 mm; L = 280 mm, Vane 12.7 x 12.7 mm included with four calibrated springs)



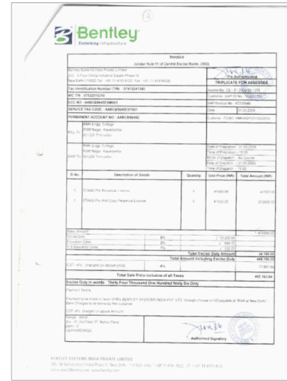
CBR Apparatus (AIM:121, Laboratory California Bearing Ratio Test Apparatus, Electronic)



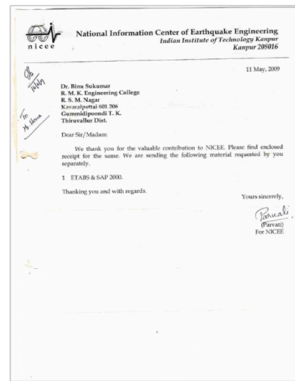
Atomic Absorption Spectro Photometer  
(Background corrector, Air compressor, Nitrous oxide burner, hollow cathode lamps- Nickel, Zinc, Lead- Acetylene gas cylinder, Nitrous oxide gas cylinder, acetylene regulator, Nitrous oxide regulator with heater, exhaust with fume hood.



**NISA CIVIL**  
(Version 18, 10 user license- an integrated & versatile structural engineering software which offers CAD based tool for the Analysis, Design & Detailing of RCC & Steel structures)



**STAAD Pro V8i**  
(10 user perpetual license software is used to analyse and design RC and Steel structures and all special structures)



**ETABS and SAP 2000**  
(10 user network license software is used to analyse and design RC and Steel structures and all special structures)

**Software License Details**

**Table 7.5.3: Project work 2020–2024 batch (2023-24 Even Semester)**

S.No	Reg No	Name of Student	Guide	Title
------	--------	-----------------	-------	-------

1	111720101026	Sneha S	Dr. Binu Sukumar	Study on the design of a pre-engineered warehouse building
2	111720101031	Sweettha B		
3	111720101002	Arul Prakash A	Dr. T. Murali Krishna	Experimental study on Characteristics of Expansive soil using Eggshell Powder and Sugarcane Bagasse Ash
4	111720101025	Sanjog S		
5	111720101030	Surya T		
6	111720101003	Bavani Muni Lokesh Roy	Dr. A. Hemamathi	Micro Structural Characterization of Graphene in Concrete
7	111720101014	Md Musharaf Hussain		
8	111720101032	Thikkavarapu Krusheeth Reddy		
9	111720101017	Murali G	Dr. A. Hemamathi	As Built Survey of Kavaraipettai Railway Station using SLAM
10	111720101010	Hindumathi D		
11	111720101021	Pilli Danalakshmi		
12	111720101034	Vakammalla Manjula	Mr. P. Joyson Silva	Design of Pre-Engineered Building using STAAD Pro
13	111720101006	Dhanushya K		
14	111720101024	Rachana B		
15	111720101029	Sumithra V	Mr. P. RamShankar	AI Solution for Pothole Detection
16	111720101005	Charan Kumar M S		
17	111720101007	Gowtham M S		
18	111720101008	Harish K N		
19	111720101009	Harishkumar D	Mr. R. Arun Prathap	Smart irrigation using Raspberry Pi
20	111720101004	Bhagya Sri S B		
21	111720101019	Paarkavi E	Mr. R. Arun Prathap	Analysis of Groundwater parameters in Gummidipoondi Taluk
22	111720101020	Pamulapati Santhosh Reddy		
23	111720101033	Uppalapati Manoj Kumar		
24	111720101012	Kailasam Jai Chidvilas		

25	111720101011	Jayanthan A	Mrs. R. Aishwarya	Prediction of water-logged zones under heavy rainfall conditions using GIS
26	111720101023	Pushkar S		
27	111720101028	Sujith G		
28	111720101303	Rohith V		
29	111720101013	Krithik Roshan V	Mrs. R. Aishwarya	Spatial Distribution of Ground Water Quality using GIS
30	111720101015	Mervyn R		
31	111720101022	Pragadeshwaran S		
32	111720101027	Subramanian A		
33	111720101001	Akash Arul A	Mr. S. P. Kanniyappan	A Study on Analysis and Design of a Pedestrian Steel Bridge in Tambaram
34	111720101016	Mugilan R		
35	111720101018	Nakul P		
36	111720101302	Mari Sivasankar M		

**Table 7.5.4: Project work 2021-25 Batch (2024-25 Even Semester)**

S.No	Reg No	Name of Student	Guide	Title
1	111721101001	A C Khyathi	Dr. A. Hemamathi	Treatment of greywater by using innovative technologies
2	111721101006	Madhuritha C		
3	111721101019	Veluru Pranavi		
4	111721101002	Santhosh C B	Mr. S.P. Kanniyappan	Comparative study on strength and water absorption of conventional and GGBS bricks
5	111721101013	Samuel Abraham F		
6	111721101003	Dhanush M V	Dr. Binu Sukumar	Mechanical and microstructure characteristics of low carbon concrete using recycled materials
7	111721101004	Dharshan R		
8	111721101009	Navikaran K		
9	111721101020	Vikram N		

10	111721101005	Lakshmi Venkateswara Reddy CH	Dr. P. Joyson Silva	Utilization of Waste Foundry Sand and Silica Fume as Sustainable Substitutes in Concrete
11	111721101017	Tamizharasan M		
12	111721101303	Yogesh P		
13	111721101008	Mohana Krishnan G	Mr. P. Ramshankar	Mechanical characteristics and Life Cycle Analysis of Concrete using GGBS and CD Aggregate
14	111721101010	R Nirmal		
15	111721101022	Hari Haran K		
16	111721101301	Kakarla Magi		
17	111721101011	Roshini R	Dr. A. Hemamathi	Buckling Resistance of Cold Formed Steel
18	111721101016	Suruthi S B		
19	111721101021	Thanvi Shree P		
20	111721101014	Santhosh G	Mr. R. Arun Prathap	Design of a Residential Building Manual vs Revit Software Approach
21	111721101015	Sudharsan D		
22	111721101302	Karthick R		
23	111721101018	Vatambati Muni Sai Saketh	Ms. R. Aishwarya	Study of Sound Absorption Property of Wall Panels
24	111721101304	Vemula Venkata Mounish		
25	111721101305	Pobbareddy Yaswanth Reddy		

**Table 7.5.5: Project work 2022-26 Batch (2025-26 Even Semester)**

S No	Register Number	Name of the Student	Guide Name	Title
1	111722101008	M. Kavya Sri	Dr.L.Andal	Energy efficient blocks for residential building in high temperature zone
	111722101018	Santhiya P		
2	111722101013	Mukesh Kumar S	Dr.L.Andal	Comparative multi output prediction of concrete mechanical properties using random forest and support vector regression
	111722101021	Sofan V K		
	111722101023	Kishore Kumar S		
	111722101301	Bandi Ramanjulu		

S No	Register Number	Name of the Student	Guide Name	Title
3	111722101007	Kapildev K	Mr.P.Ramshankar	Study on mechanical and life cycle assessment of sustainable low carbon concrete
	111722101012	Manoj S		
	111722101024	Sriraman C M		
	111722101011	Machireddy Konda Reddy		
4	111722101010	Kishore S	Dr.A.Hemamathi	Optimization and Performance evaluation of Bacillus subtilis - induced self-healing concrete
	111722101014	Penagaluru Balaji Sai		
	111722101020	Sheshadri N		
	111722101022	Thulasikrishna V		
5	111722101019	Shanthi S	Ms.R.Aishwarya	Hydrodynamic modelling and flood zonation mapping: A case study of Tambaram
6	111722101003	Debbie Anna C D	Dr.A.Hemamathi	Evaluation of Earthquake magnitude for Manipur using Machine learning techniques
	111722101004	Indhumathi J		
	111722101015	Pratibha K		
	111722101017	Rajashree R		
7	111722101009	Kishore Kannan S	Mr.S.P.Kanniyappan	3-D modelling of a multi-storied building using REVIT
8	111722101001	Akshaya Ram I J	Mr.P.Ramshankar	Quantifying the environmental footprint and operational efficiency of high-rise building
9	111722101002	Aswinkumar K	Dr.P.Joyson Silva	Seismic performance evaluation of vertical irregular mixed use multi storied building in Chennai using STAAD Pro.
	111722101005	Joel Jose J S		
	111722101016	Prince Ramachandran T		

#### **7.5.B. Availability of Centre of Excellence**

The Department of Civil Engineering has established a **Centre of Excellence (CoE) in GIS & Smart Cities** in collaboration with TCS (IoT-Digital Engineering Division). The CoE focuses on advanced geospatial technologies, smart infrastructure planning, digital urban management, and industry-integrated project development.



Dr. K.M. Suceendran, Head – Academic Alliances Group, M/s Tata Consultancy Services, inaugurated the GIS & Smart Cities COE Lab.



GIS & Smart Cities COE Lab

**Table. 7.5.3: List of Centre of Excellences available in the Department**

S. No.	Name of the Facility	Collaborating Industry Partner	Establishment Purpose	Key Focus Areas
1	Centre of Excellence (CoE) in GIS & Smart Cities	<p>*Tata Consultancy Services (TCS) – IoT &amp; Digital Engineering Division</p> <p>*Our GIS &amp; Smart Cities COE lab has been recognized as “Open-Source Geospatial Knowledge Center” by FOSSEE GIS Project, IIT Bombay for Thiruvallur District.</p>	To provide advanced training, research, and industry-integrated project development in geospatial technologies and smart infrastructure systems	<p>• Geographic Information Systems (GIS) • Smart City Planning &amp; Development • Digital Urban Infrastructure Management • IoT-enabled Civil Engineering Applications</p>

### 1. Establishment & Industry Collaboration

- Knowledge Partner: **TCS – IoT & Digital Engineering (GIS Division)**
- Industry-supported technical training programs conducted.
- Guest lectures and domain expert interactions.
- Industry internship opportunities and post-offer training.

The collaboration strengthens industry alignment and enhances employability in GIS, Smart Infrastructure, and Digital Engineering domains.

### 2. Infrastructure & Facilities

Hardware Infrastructure:

- High-performance computing systems
- Dedicated GIS workstations
- Remote desktop access for research support
- Drone-based survey integration capability

Software Ecosystem:

- ArcGIS Pro
- Spatial Analyst Tools

- 3D City Modeling tools
- Remote Sensing and Land Use Analysis tools
- Smart City Simulation Platforms

### 3. Academic & Research Activities Conducted

The CoE has supported the following academic and research initiatives:

#### Workshops & Training Programs

- 5-day Hands-on Training on ESRI ArcGIS (in collaboration with TCS)
- Guest Lecture on “Geospatial Applications in Civil Engineering”
- Webinar on GIS Applications in Civil Engineering

#### Industry Engagement

- Technical roadshows on BIM
- GIS technology interaction sessions by TCS officials
- 3-month post-offer internship by TCS SMEs



Discussion on GIS technology Mr.Prakriti Mohan Vasisht, Global Head, GIS Unit, TCS IoT DE on 23.5.2023



Roadshow on Building Information Modelling Mr.Kumar Subramaniam, BIM Solutions Head, TCS IoT DE on 18.4.2024

		9.10.23 – Introduction to GIS
		10.10.23 – Applications of GIS
		11.10.23 – Guest Lecture on “Remote Sensing : Past, Present and Future
		12.10.23 – GE Small World
		13.10.23 – Discussion and wrap-up session

#### 4. Student Project Utilization

The CoE actively supports UG capstone and applied research projects such as:

- Smart Dustbin Management using GIS & IoT (Chennai City)
- Base Map Creation using GIS Platforms
- Emergency Medical Station Location Planning
- Drone-based Property Tax Mapping
- Land Use & Land Cover Change Detection (Multi-year analysis)
- As-built Railway Station Survey using SLAM Technology

Impact:

- 100% utilization of GIS Lab by final year capstone project students.
- Projects aligned with Smart City and Sustainable Development Goals.
- Real-world data analysis and decision-making models developed.

**Table. 7.5.4: Student Capstone Projects Related to Centre of Excellence (GIS & Smart Cities)**

S.No	Batch No	Register Number	Name of the Student	Guide Name	Title

1	2021-25	111721101016	Suruthi S B B	Dr A Hemamathi	Comparison And Prediction of Urban Heat Island Effect for Chennai District	
		111721101019	Veluru Pranavi			
2		111721101003	Dhanush M V	Ms.R.Aishwarya	Location Optimization of Emergency Medical Stations in Sivakasi	
		111721101004	Dharshan R			
3		111721101002	C B Santhosh	Mr.S.P.Kanniyappan	Land Use Landcover Mapping of Gummudipoondi Taluk	
		111721101013	Samuel Abraham			
4		111721101009	Navikaran K	Dr.P.Joyson Silva	Intelligent Green Space Allocation for Urban Well-Being	
		111721101010	R Nirmal			
		111721101020	Vikram N			
5		111721101018	Vatambati Muni Sai Saketh	Mr.P.Ramshankar	GIS-Based Noise Level Mapping for A Developing Smart City	
		111721101304	Vemula Venkata Mounish			
6		111721101005	Chennareddygari Lakshmivenkateswara Reddy	Mr.R.Arun Prathap	Stockpile Management in Quarries Leveraging Drone Technology	
7		2022-26	111722101004	Indhumathi J	Dr L Andral	Air Quality Index Mapping of Thiruvallur District
8			111722101007	Kapildev K	Ms.R.Aishwarya	Reconstruction Of Super Resolution Dem Using UAV Imagery and Deep Learning
9			111722101008	Kavya Sri M	Dr A Hemamathi	Mapping The Urban Greenery in Perambur Ward: A 3-30-300 Approach
10			111722101010	Kishore S	Mr.P.Ramshankar	Surface Water Turbidity Analysis of Thirumanimutharu River Basin
11			111722101012	Manoj S	Dr.P.Joyson Silva	Optimization Of Precast Element Transportation for Urban Construction Projects In Chennai District
12			111722101013	Mukesh Kumar S	Mr.S.P.Kanniyappan	Coastal Vulnerability Index Mapping of Tamilnadu Coast: A Case Study From Chennai to Cuddalore
13	111722101015		Pratibha K	Mr.P.Ramshankar	GIS Based Estimation of Surface Runoff Using SCS-CN Method	
14	111722101017		Rajashree R	Mr.S.P.Kanniyappan	Agricultural Drought Analysis Using NDVI and Rainfall Deviation	
15	111722101018		Santhiya P	Mr R Arun Prathap	Study of Flash Drought Scenarios in Tamilnadu	
16	111722101019		Shanthi S	Ms.R.Aishwarya	Predictive Modelling of Land Cover Changes in The Emerging Corridors of Chennai Metropolitan Area	
17	111722101023		Kishore Kumar S	Dr.P.Joyson Silva	GIS Based Suitability Analysis of Solar Farm In Thiruvallur District	
18	111722101024		Sriraman C M	Mr R Arun Prathap	Accessibility Analysis of Flood Relief Centers in Tiruvallur Blocks	



Ms.Indhumathi J of 2022-26 Batch Final Year, received ISTE Best project award for the project titled "GIS Based Air Quality Index Mapping for Thiruvallur District".



Ms. Suruthi SB of 2021-25 Batch Final Year, received ISTE Best project award for the project titled " Drone-based Property tax mapping of a ward in the Kallakuruchi District".



Our GIS & Smart Cities COE lab has been recognized as "Open-Source Geospatial Knowledge Center" by FOSSEE GIS Project, IIT Bombay for Thiruvallur District.

#### Recognition and Awards Secured by Student Capstone Projects – Centre of Excellence (GIS & Smart Cities)

#### 5. Faculty Competency Development

Faculty members have undergone:

- GIS Certification Programs (ESRI / Coursera / NPTEL)
- Drone Pilot License (DGCA)
- BIM Certification Programs
- Advanced Geospatial & AI-based Analytics Training

This ensures sustained academic delivery and research support.

**Table 7.5.5: Faculty Certification Details**

Name of the Faculty	Name of the Course	Provided by	Training fees sponsored by college
Ms.R.Aishwarya	Geographic Information Systems	Coursera	Rs.17,000
	Drone Surveying and Mapping	Land coordinates Technology	Rs.29,500
Mr.P.Ramshankar	Geographic Information Systems	Coursera	Rs.17,000
	Building Information Modelling	ConstrucTechz	Rs.10,000
Mr.R.Arun Prathap	Drone Pilot license	DGCA	Rs.70,000
Dr.A.Hemamathi	Building Information Modelling	ConstrucTechz	Rs.10,000

#### 6. Student Certification & Skill Enhancement

Students have completed:

- GIS Fundamentals (ESRI / Coursera)
- Remote Sensing & GIS (NPTEL)
- ArcGIS Hands-on Training Programs

This enhances domain readiness and placement competitiveness.

#### 7. Outcomes of Centre of Excellence

Placement Impact:

- TCS Digital Offer – 7.6 LPA
- TCS Ninja Offers – 3.6 LPA
- GIS-domain career progression

**Table 7.5.6: Details of Students Placed through COE**

Batch	Name of the Student	Offer
2019-23	S.Yogeshwar	TCS Digital – 7.6 LPA
2020-24	A.Jayanthan	TCS Ninja – 3.6 LPA
	S.Pragadheeshwaran	
	S.Pushkar	
	A.Subramaniam	
2021-25	Vikram N	TCS Ninja – 3.6 LPA
2022-26	Mukesh Kumar S	Trimble – 7 LPA

**Academic Impact:**

- Simulation-driven infrastructure projects
- Industry-integrated curriculum enrichment

**Research Impact:**

- Urban infrastructure optimization
- Land use predictive analytics

**Table 7.5.7: Details of COE Projects Received External Funding Support**

Date	Project Title	Funding Agency	Amount	Principal Investigator
16.12.2025	High-Resolution LiDAR-Based Flood Zonation Mapping for an Urbanizing Micro Watershed in Tamil Nadu	Tamil Nadu State Planning Commission	Rs.17.15 Lakhs	Ms. R. Aishwarya
27.06.2025	Geocare	MSME	Rs. 15.00 Lakhs	Ms. R. Aishwarya
19.05.2025	GIS based Nosie level mapping for a developing Smart City	TNSCST	Rs. 7,500	Mr. P. Ramshankar

**7.5.C. Utilization of Project / Research Labs / COE (05 Marks)****Table 7.5.8: Details of Projects & Publications from COE Lab**

Academic Year	No. of UG Projects Using Lab	No. of Research Publications
CAY	12	5
CAYm1	6	2
CAYm2	6	2

**7.5.D. Relevance to POs / PSOs (05 Marks)****Table 7.5.9: Mapping of Facilities with PO & PSOs**

Facility	PO1	PO2	PO3	PO5	PO7	PO9	PO11	PSO1	PSO2	PSO3
Project Lab	✓	✓	✓	✓	–	✓	✓	✓	✓	✓
Research Lab	✓	✓	✓	✓	✓	–	✓	✓	–	✓
GIS & Smart Cities COE 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)	1020	51	39	6	64
2024-25(CAYm1)	1020	51	39	5	63
2025-26(CAY)	1140	57	38	8	56

**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	65000000	54045722	59500000	59451081	61500000	61283825	73000000	72902520
Library	3000000	2244355	3500000	3404893	2300000	2290285	1300000	1199576
Laboratory equipment	30000000	24666740	38700000	38565392	15000000	14904667	27000000	26828660
Teaching and non-teaching staff salary	428000000	351645708	367100000	367100116	328000000	327692007	292000000	290769073
Outreach Programs	17500000	6727550	17000000	16720150	16500000	16366610	12000000	11649340
R&D	14656000	12429171	13655000	13511910	17295000	16762155	14360000	14233864
Training, Placement and Industry linkage	38000000	32892631	37500000	37316188	42500000	42464285	28000000	28062278
SDGs	22000000	5765374	21100000	21021148	13000000	12950757	6300000	6477225
Entrepreneurship	344000	344000	325000	325000	285000	285000	250000	250000
Others, specify	498570000	334687524	622180000	620831870	666670000	664231197	598040000	596706036
<b>Total</b>	<b>1117070000</b>	<b>825448775</b>	<b>1180560000</b>	<b>1178247748</b>	<b>1163050000</b>	<b>1159230788</b>	<b>1052250000</b>	<b>1049078572</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
-------	---------------------	---------------------------------	---------------------	---------------------------------	---------------------	---------------------------------	---------------------	---------------------------------

Laboratory equipment	245000	244192	60000	51906	230000	130841	600000	643220
Software	0	58400	0	57820	0	0	0	0
SDGs	135000	90332	135000	120896	115000	100500	50000	41080
Support for faculty development	200000	172858	80000	69200	50000	64400	50000	48790
R & D	120000	108250	70000	98885	70000	149818	50000	89600
Industrial Training, Industry expert, Internship	50000	46735	50000	15000	50000	25000	50000	50000
Miscellaneous Expenses*	200000	351859	200000	350115	200000	384593	200000	335755
<b>Total</b>	<b>950000</b>	<b>1072626</b>	<b>595000</b>	<b>763822</b>	<b>715000</b>	<b>855152</b>	<b>1000000</b>	<b>1208445</b>