

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 : 2
Application No : 12041	Date of Submission : 16-07-2026

PART A- Profile of the Institute

A1.Name of the Institute : Stella Mary's College of Engineering	
Year of Establishment : 2012	Location of the Institute: Latitude 8133528 Longitude 77342216
A2. Institute Address :Aruthenganvilai,Kallukatti Junction,Azhikal Post,Kanyakumari District-629202,Tamil Nadu,South India.	
City:Kanniyakumari (HQ : Nagercoil)	State:Tamil Nadu
Pin Code:629202	Website:www.stellamaryscoe.edu.in
Email:info@stellamaryscoe.edu.in	Phone No(with STD Code):04651-239122
A3. Name and Address of the Affiliating University (if any) :	
Name of the University : Anna University Chennai	City: Chennai
State : Tamil Nadu	Pin Code: 600025
A4. Type of the Institution : Autonomous CAY(2024-25)	
A5. Ownership Status : Self financing	

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

- No. of UG programs: 8
- No. of PG programs: 5

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	2023	--	Computer Science and Engineering
2	Engineering & Technology	UG	Biomedical Engineering	2026	--	Electronics and Communication Engineering
3	Engineering & Technology	UG	Civil Engineering	2014	--	Civil Engineering
4	Engineering & Technology	PG	Computer Science & Engineering	2014	--	Computer Science and Engineering
5	Engineering & Technology	UG	Computer Science and Engineering	2012	--	Computer Science and Engineering
6	Engineering & Technology	UG	Electrical and Electronics Engineering	2012	--	Electrical and Electronics Engineering
7	Engineering & Technology	UG	Electronics and Communications Engineering	2012	--	Electronics and Communication Engineering
8	Engineering & Technology	PG	Industrial Safety Engineering	2022	--	Mechanical Engineering

9	Engineering & Technology	UG	Information Technology	2012	2014	Computer Science and Engineering
10	Engineering & Technology	UG	Mechanical Engineering	2012	--	Mechanical Engineering
11	Engineering & Technology	PG	Power Systems Engineering	2026	--	Electrical and Electronics Engineering
12	Engineering & Technology	PG	VLSI Design	2026	--	Electronics and Communication Engineering
13	Management	PG	Master of Business Administration	2023	--	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
Electrical and Electronics Engineering	No	Electrical and Electronics Engineering	UG
Civil Engineering	No	Civil Engineering	UG
Electronics and Communication Engineering	No	ELECTRONICS AND COMMUNICATION 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	PID
1	Civil Engineering	UG	2014 / --	60	No	NA	60	2014	F.No. Southern/1-2016693845/2014/EOA	Not accredited (specify visit dates, year)	07/01/2022	09/01/2022	0	4

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.R.K.MADHUMATHI
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)	60	60	60	60	60	60	60
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	33	19	36	34	32	17	22
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	2	1	1	8	15	7
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	0	0	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	33	21	37	35	40	32	29

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)	60	33	0	55.00
2024-25 (CAYm1)	60	19	0	31.67
2023-24 (CAYm2)	60	36	0	60.00

Average [(ER1 + ER2 + ER3) / 3] = 48.89= 5.00

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

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

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	66.00	66.00	66.00
B=No. of students who graduated from the program in the stipulated course duration	19.00	9.00	17.00
Success Rate (SR)= (B/A) * 100	28.79	13.64	25.76

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 22.73

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)	7.62	8.02	7.67
Y=Total no. of successful students	19.00	36.00	34.00
Z=Total no. of students appeared in the examination	19.00	36.00	34.00

API [X*(Y/Z)]	7.62	8.02	7.67
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Average API[(AP1+AP2+AP3)/3] : 7.77

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)	7.83	7.76	7.55
Y=Total no. of successful students	36.00	31.00	36.00
Z=Total no. of students appeared in the examination	37.00	35.00	39.00
API [X * (Y/Z)]	7.62	6.87	6.97

Average API [(AP1 + AP2 + AP3)/3] : 7.15

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.71	7.42	7.83
Y=Total no. of successful students	29.00	32.00	27.00
Z=Total no. of students appeared in the examination	31.00	36.00	30.00
API [X*(Y/Z)]:	7.21	6.60	7.05

Average API [(AP1 + AP2 + AP3)/3] : 6.95

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	66.00	66.00	66.00
X=No. of students placed	27.00	19.00	20.00
Y=No. of students admitted to higher studies	1.00	1.00	2.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	42.42	33.33	33.33

Average Placement Index = (P_1 + P_2 + P_3)/3: 36.36 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.R.K.MADHUMATHI	XXXXXXXX24G	Ph.D	Anna University	Soil Mechanics and Foundation Engineering	25/06/2018	8	Assistant Professor	Professor	03/02/2025	Regular	Yes		Yes
2	Mr.T.RAGIN	XXXXXXXX07B	M.Tech	PRIST UNIVERSITY	STRUCTURAL ENGINEERING	06/07/2015	11	Assistant Professor	Assistant Professor		Regular	Yes		No
3	Mrs.N.AGNES FLORA	XXXXXXXX02P	M.E.	Anna University	STRUCTURAL ENGINEERING	21/06/2017	9	Assistant Professor	Assistant Professor		Regular	Yes		No
4	Mrs.M.ASHNI	XXXXXXXX89C	M.Tech	SRM UNIVERSITY	GEO TECHNICAL ENGINEERING	21/06/2017	9	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Mrs.S.INDIRA	XXXXXXXX06A	M.E.	Anna University	STRUCTURAL ENGINEERING	21/06/2017	9	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Mr.S.RAVIKUMAR	XXXXXXXX46P	M.E.	Anna University	STRUCTURAL ENGINEERING	25/06/2018	8	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Mrs.A.SAHAYA SOFIA	XXXXXXXX43K	M.E.	Anna University	STRUCTURAL ENGINEERING	01/07/2019	7	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Mrs.P.SONY	XXXXXXXX21M	M.E.	Anna University	Environmental Management	01/08/2019	6.11	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mrs.V.R. SCINDIA RAJ	XXXXXXXX69C	M.E.	Anna University	STRUCTURAL ENGINEERING	01/06/2022	4.1	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Dr.R.REMA	XXXXXXXX31D	Ph.D	Noorul Islam Centre for Higher Education	Construction Engineering and Management	01/02/2023	3.5	Assistant Professor	Associate Professor	25/10/2025	Regular	Yes		No
11	Dr.M.R.ABISHA	XXXXXXXX39N	Ph.D	Noorul Islam Centre for Higher Education	Construction Engineering and Management	05/08/2024	1.11	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Mr.A.AMALA RAJU ARUL	XXXXXXXX11E	M.E.	Anna University	Soil Mechanics and Foundation Engineering	05/06/2023	1	Assistant Professor	Assistant Professor		Regular	No	28/06/2024	No
13	Mr.V.S. SREEKUMARA GANAPATHY	XXXXXXXX86H	M.E.	Anna University	STRUCTURAL ENGINEERING	01/08/2019	5.10	Assistant Professor	Assistant Professor		Regular	No	27/06/2025	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	62	61	61
UG1.C	61	61	66
UG1.D	61	66	66
UG1: Civil Engineering	184	188	193
DS=Total no. of students in all UG and PG programs in the Department	184	188	193
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= 184	S2= 188	S3= 193
DF=Total no. of faculty members in the Department	11	12	12
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= 11	F2= 12	F3= 12
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)	SFR1= 16.73	SFR2= 15.67	SFR3= 16.08
Average SFR for 3 years	SFR= 16.16		

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	$FQ = 2.5 \times [(10X + 4Y) / RF]$
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2025-26(CAY)	3	8	9.00	17.22
2024-25(CAYm1)	2	10	9.00	16.67
2023-24(CAYm2)	1	11	9.00	15.00

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	1.00	1.00	2.00	0.00	6.00	10.00
2024-25	1.00	0.00	2.00	1.00	6.00	11.00
2023-24	1.00	0.00	2.00	1.00	6.00	11.00
Average	RF1=1.00	AF1=0.33	RF2=2.00	AF2=0.67	RF2=6.00	AF2=10.67

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.NAGENTHIRA J	SOFT SKILLS TRAINER	YARD STICK ACADEMY	PROFESSIONAL DEVELOPMENT	30.00
2	Mr.VIKRAM	CERTIFIED TRAINER	Educational CAD & Technologies, Nagercoil	Building Drawing and detailing Laboratory	20.00
3	Dr.D.SATHEESH HERBERT SINGH	Assistant Professor and Head	MALANKARA CATHOLIC COLLEGE, MARIAGIRI	SURVEY CAMP	20.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr.R.M.BALASUBRAMANIYAN	SENIOR SKILL TRAINER	YARD STICK ACADEMY	PROFESSIONAL DEVELOPMENT	30.00
2	Mr.VIKRAM	CERTIFIED TRAINER	Educational CAD & Technologies, Nagercoil	Building Drawing and detailing Laboratory	20.00
3	Mr.SUBIN	LAND SURVEYOR	KRISHNA LAND SURVEY INSTITUTE, NAGERCOIL	SURVEY CAMP	20.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr.Nagenthira J	LANGAUGE & SOFTSKILLS TRAINER	YARDSTICK ACADEMY	PROFESSIONAL DEVELOPMENT	30.00
2	Mr.VIKRAM	CERTIFIED TRAINER	Educational CAD & Technologies, Nagercoil	Building Drawing and detailing Laboratory	20.00
3	Dr.D.SATHEESH HERBERT SINGH	Assistant Professor and Head	MALANKARA CATHOLIC COLLEGE, MARIAGIRI	SURVEY CAMP	20.00

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	3	0	0
2	No. of peer reviewed conference papers published	0	1	0
3	No. of books/book chapters published	0	2	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
Mrs Sony P	Dr R Rema	Civil Engineering	Integrated GIS and IoT Approach for Coastal Inundation Mapping and Monitoring	New World Trust	6 months	1.00
						Amount received (Rs.):1.00

(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
Mrs Agnes Flora N		Civil Engineering	Investigation Of Fresh And Hardened Properties Of Concrete Using Waste Foundry Sand (WFS) As A Partial Replacement Of Fine Aggregate In Concrete	Tamilnadu Skill Development Corporation	3 months	0.10
						Amount received (Rs.):0.10

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: 1.10

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 R K Madhumathi	Mrs Ashni M	Civil Engineering	Soil Investigation in Field & Laboratory	Varaha Geotechnical Wroks	4 weeks	0.74
Mrs Sony P	Dr R Rema	Civil Engineering	Performance Audit for ZLD	Dropler Environ Consultants	3 weeks	0.36
						Amount received (Rs.):1.10

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Mrs Sony P	Dr R Rema	Civil Engineering	Water Audit	Dropler Environ Consultants	4 weeks	0.28
Mr. T. Ragin	Mrs. N Agnes Flora	Civil Engineering	Concrete Cube Testing	S. J. Construction	4 weeks	0.25
Mrs Indira S	Mrs V R Scindia Raj	Civil Engineering	Specimen testing (Cube, Paver block, Brick, Cylinder, Beam, Prism)	Miraka Construction	4 weeks	0.28
Dr R K Madhumathi	Mrs Ashni M	Civil Engineering	Soil Investigation in Field & Laboratory	Varaha Geotechnical Works	4 weeks	0.69
						Amount received (Rs.):1.50

(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
Mr. T. Ragin	Mrs. N Agnes Flora	Civil Engineering	Layout preparation and levelling	S. J. Construction	4 weeks	0.27
Mrs Sony P	Dr R Rema	Civil Engineering	Drafting of Plan, section and elevation	Varunika Builders	4 weeks	0.29
Mrs Indira S	Mrs V R Scindia Raj	Civil Engineering	Structural Design	Miraka Construction	4 weeks	0.32
						Amount received (Rs.):0.88

Total amount (Lacs) received for the past 3 years: 3.48**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 R Rema	Seed Money	6 months	0.20	0.20	Improved understanding and project report
Mrs Sony P	Research Grant	-	3.17	3.17	Improved understanding and project report
			Amount received (Rs.): 3.37		

(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 R K Madhumathi	Seed Money	6 months	0.20	0.20	Improved understanding and Project Report
			Amount received (Rs.): 0.20		

(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
Mrs Ashni M	Seed Money	6 months	0.20	0.20	Improved understanding and Project Report
			Amount received (Rs.): 0.20		

Total amount (Lacs) received for the past 3 years : 3.77

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	Surveying and Levelling Laboratory	20	Total Station, Theodolites ,Dumpy Level, Tilting Level, Prismatic Compass, Surveyor Compass	10 hrs per wee	Mrs. K.Abisha	Lab Instructor	BE
2	Material Testing Laboratory	20	UTM of Minimum 400kN capacity,Torsion testing machine for steel rods, Izod impact testing machine, Hardness testing machine, Rockwell hardness testing	41 hrs per wee	Mrs. K.Abisha	Lab Instructor	B.E
3	Water And Wastewater Analysis Laboratory	20	Jar Test Apparatus, Flame Photometer, Spectro Photometer, Gas Chromatography, DO cum Temperature meter, COD Analyser, Muffle Furnace	10 hrs per wee	Mrs. John Abisha	Lab Instructor	B.E
4	Soil Mechanics Laboratory	20	Sieves, Liquid and Plastic limit apparatus, Shrinkage limit apparatus, Proctor Compaction apparatus, UTM of minimum of 60kN capacity, Direct Shear apparatus	41 hrs per wee	Mr. JASPER THILAGA RAJ	Lab Instructor	B.E

5	Hydraulic Engineering Laboratory	20	Rotometer, Bernoulli's Experiment, friction factor in pipes, Minor losses, Centrifugal pumps, Gear pump, Schenck's viscometer, Ring and Ball Apparatus, Baller's test	12 hrs per wee	Mr. JASPER THILAGA R/	Lab Instructor	B.E
6	Highway Engineering Laboratory	20	Los Angeles Abrasion Testing Machine, Orifice Viscometer, Ring and Ball Apparatus, Centrifuge, Extensometer, Marshall stability test apparatus, Baller's test	6 hrs per week	Mr. JASPER THILAGA R/	Lab Instructor	B.E
7	Building Drawing And Detailing Laboratory	20	High Configuration Desktop Computers, AutoCAD (Students Registered Version 2021), REVIT ((Students Registered Version 2021)	41 hrs per wee	Mrs. John Abisha	Lab Instructor	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	Surveying And Levelling Laboratory	☐ General Rules of Conduct in Laboratories are displayed. ☐ Specific Safety Rules for students displayed. ☐ First aid box, Fire extinguishers are kept in the laboratory. ☐ Follow the instructor's or lab technician's specific guidelines before handling any equipment or starting a field exercise. ☐ Well trained technical supporting staff. ☐ Avoid surveying under high-tension electrical transmission lines with long aluminium levelling staffs or metallic chains. ☐ Carry instruments using their designated padded carrying cases or hold the tripod firmly upright over your shoulder with the instrument locked. ☐ Periodical servicing of the lab equipment's. ☐ Protect the instrument from heavy rains.
2	Material Testing Laboratory	☐ General Rules of Conduct in Laboratories are displayed. ☐ Mobile phones are switched off before entering the laboratory. ☐ Students should operate testing machines only after receiving proper instructions and under the supervision of laboratory staff. ☐ Specific Safety Rules in the form of Do's and Don'ts are displayed in the laboratory. ☐ Follow the manufacturer's instructions and standard operating procedures while operating all testing equipment. ☐ First Aid Box and Fire Extinguishers are available and easily accessible in the laboratory. ☐ Handle steel specimens, broken concrete, metal pieces, and cutting tools carefully to avoid cuts and puncture injuries. ☐ After completing a test, switch off the machine and electrical supply and return the equipment to its designated condition.
3	Water And Wastewater Analysis Laboratory	☐ General Rules of Conduct in Laboratories are displayed. ☐ Always wear a laboratory coat, safety goggles, gloves, and closed-toe footwear while performing experiments. ☐ Wash hands thoroughly with soap and water before leaving the laboratory, especially after handling wastewater, chemicals, or contaminated samples. ☐ Handle acids, alkalis, oxidizing agents, and other laboratory chemicals carefully. Always follow the prescribed procedure and chemical safety instructions. ☐ Check glassware for cracks or damage before use. Handle burettes, pipettes, measuring cylinders, and other glass apparatus carefully. ☐ Never pipette chemicals or wastewater samples by mouth. Use a pipette filler or other approved mechanical device. ☐ Do not pour concentrated chemicals, contaminated samples, or laboratory reagents directly into the sink. Dispose of chemical and biological waste according to laboratory procedures. ☐ Broken glass, contaminated pipettes, and other sharp objects should be disposed of in designated containers and never in ordinary waste bins.
4	Soil Mechanics Laboratory	☐ General Rules of Conduct in Laboratories are displayed. ☐ Mobile phones are switched off before entering the laboratory ☐ Wear a laboratory coat/apron, safety shoes, and appropriate gloves while handling soil samples and chemicals. ☐ Operate apparatus such as the compaction mould, Proctor rammer, direct shear apparatus, and consolidation equipment only according to the prescribed procedure. ☐ Handle measuring cylinders, pycnometers, and other glass apparatus carefully. Do not use cracked or damaged glassware. ☐ Eating, drinking, or storing food inside the laboratory should be strictly prohibited. ☐ Dispose of excess soil, contaminated materials, and other laboratory waste in designated containers. Do not block sinks or drains with soil.
5	Hydraulic Engineering Laboratory	☐ General Rules of Conduct in Laboratories are displayed. ☐ Mobile phones are switched off before entering the laboratory ☐ Wear a laboratory coat, safety shoes, and appropriate PPE while conducting hydraulic experiments. ☐ Keep floors, walkways, and working areas dry and free from spilled water. Clean up water immediately to prevent slips and falls. ☐ Open and close valves gradually to avoid sudden pressure changes, water hammer, or damage to the apparatus. ☐ Ensure that the experimental setup is properly secured before allowing water to flow through open channels, weirs, or flumes. ☐ Follow the laboratory manual, standard operating procedures, and manufacturer's instructions for every experiment. ☐ Students should conduct experiments only under the supervision of the laboratory instructor or technician.

6	Highway Engineering Laboratory	☐ General Rules of Conduct in Laboratories are displayed. ☐ All staff and students who undertake work in the laboratories must take reasonable care of their own health and safety and the health and safety of others. ☐ Wear shoes that fully cover their feet (bare feet, thongs or open-toed sandals are unacceptable). Students with inappropriate foot wear will not be permitted in the laboratory. ☐ Make proper use of all safety devices and personal protective equipment ☐ Must remain within designated areas. ☐ Mobile phones are switched off before entering the laboratory. ☐ All electrically powered equipment is properly grounded (earthed).
7	Building Drawing and Detailing Laboratory	☐ General Rules of Conduct in Laboratories are displayed. ☐ Mobile phones are switched off before entering the laboratory ☐ Files are stored in a designated folder and protected with a secure password. ☐ Users sign the laboratory logout register before leaving the laboratory. ☐ Debugging and virus-related issues are referred to the programmer or laboratory technical staff. ☐ Pen drives are not used without prior permission from the Laboratory In-charge. ☐ Passwords are kept confidential and are not shared with others. ☐ Computer systems are shut down properly after use. ☐ All computers are provided with antivirus software, and USB ports are protected to prevent unauthorized access and virus infection.

D3. Project Laboratory/Research Laboratory

PART E: First Year faculty and financial Resources

(Data to be filled in for the first year course faculty and budget allocation and utilization)

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) + (NS2*0.2))/RF
2023-24(CAYm2)	420	21	21	7	87
2024-25(CAYm1)	480	24	23	9	84
2025-26(CAY)	480	24	22	10	82

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	31500000	31034650	20100000	20099521.5	31000000	30795000	830000	825500
Library	870000	871287	555000	554678	590000	585318	1000000	988750
Laboratory equipment	365000	3644876	5700000	7238846	3400000	5111774	2825000	3721655
Teaching and non-teaching staff salary	39100000	39078527	48000000	47645488	31150000	31145346	26300000	26262822
Outreach Programs	1375000	1345840	1070000	1066787	1260000	1256354	1750000	1717507

R&D	3200000	3183937	2450000	2873841	1565000	1852929	1330000	1334857
Training, Placement and Industry linkage	5800000	5767362	4200000	4201953	2750000	5953058	1080000	3683203
SDGs	1750000	1738975	285000	1309397	115000	1338061	510000	636800
Entrepreneurship	275000	272110	860000	282014	3200000	120619	62000	61030
Others, specify	74000000	70539226.95	54000000	51066979.9	34500000	31024141.83	35500000	31353333.18
Total	158235000	157476790.95	137220000	136339505.4	109530000	109182600.83	71187000	70585457.18

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	165000	156452	110000	106500	190000	185372	250000	245894
Software	145000	135450	210000	206500	60000	55000	90000	85000
SDGs	185000	182380	180000	174560	175000	163520	115000	112370
Support for faculty development	75000	71326	65000	62365	65000	62852	50000	48650
R & D	260000	251022	650000	611808	225000	229365	140000	136652
Industrial Training, Industry expert, Internship	475000	458785	425000	417779	370000	366370	700000	697498
Miscellaneous Expenses*	1525000	1503142	1325000	1309276	1025000	1020252	900000	887002
Total	2830000	2758557	2965000	2888788	2110000	2082731	2245000	2213066