NATIONAL BOARD OF ACCREDITATION

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

Program Name : Civil Engineering	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 1
Application No: 10331	**Date of Submission**: 20-02-2025

PART A- Profile of the Institute

A1.Name of the Institute: SAINTGITS College of Engineering	
Year of Establishment : 2002	Location of the Institute: Kottayam
A2. Institute Address:Kottukulam Hills; Pathamuttom P.O Kottayam	
City:Kottayam	State:Kerala
Pin Code:686532	Website:www.saintgits.org
Email:mail@saintgits.org	Phone No(with STD Code):0481-2436169
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Mahatma Gandhi University	City: Kottayam
State : Kerala	Pin Code: 686560
A4. Type of the Institution: Self-Supported Institute	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **10**
- No. of PG programs: **12**

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Computer Application	PG	Master of Computer Application	2004	--	Computer Application
2	Computer Application	PG	Master of Computer Applications (Integrated)	2019	--	Computer Application
3	Engineering & Technology	UG	Chemical Engineering	2017	--	Chemical Engineering
4	Engineering & Technology	UG	Civil Engineering	2004	--	Civil Engineering
5	Engineering & Technology	UG	Computer Science and Engineering	2004	--	Computer Science and Engineering
6	Engineering & Technology	PG	Computer Science and Engineering	2014	--	Computer Science and Engineering
7	Engineering & Technology	UG	Electrical & Electronics Engineering	2002	--	Electrical and Electronics Engineering
8	Engineering & Technology	UG	Electronics & Communication Engineering	2002	--	Electronics Engineering

9	Engineering & Technology	UG	Electronics & Computer Engineering	2023	--	Electronics Engineering
10	Engineering & Technology	UG	Electronics Engineering	2023	--	Electronics Engineering
11	Engineering & Technology	UG	Food Technology	2017	--	Food Technology
12	Engineering & Technology	PG	Geomechanics and Structures	2010	--	Civil Engineering
13	Engineering & Technology	PG	Machine Design	2008	--	Mechanical Engineering
14	Engineering & Technology	UG	Mechanical Engineering	2002	--	Mechanical Engineering
15	Engineering & Technology	PG	Power Systems	2008	--	Electrical and Electronics Engineering
16	Engineering & Technology	PG	Robotics & Automation	2017	--	Electronics Engineering
17	Engineering & Technology	UG	Robotics and Automation	2019	--	Electronics Engineering
18	Engineering & Technology	PG	Structural Engineering & Construction Management	2014	--	Civil Engineering
19	Engineering & Technology	PG	Telecommunication Engineering	2017	2023	Electronics Engineering
20	Engineering & Technology	PG	VLSI & Embedded Systems	2010	--	Electronics Engineering
21	Management	PG	Master of Business Administration	2005	--	Management
22	Management	PG	MBA Logistics Supply Chain Management	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**
Civil Engineering	No	Civil Engineering	UG

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.
Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record

PART-B: Program information

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

Table No. B1: Program details.
A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Civil Engineering	UG	2004 / --	60	Yes	2023	90	2023	F.No. South-West/1-40383229448/2023/EOA	Granted accreditation for 3 years for the period (specify period)	2022	2025	2	4

Sanctioned Intake for Last Five Years for the Structural Engineering & Construction Management	
Academic Year	**Sanctioned Intake**
2024-25	90
2023-24	90
2022-23	120
2021-22	120
2020-21	120
2019-20	120

List of the Allied Departments/Cluster and Programs:

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

A. Name of the HoD :	Dr. Susan Rose
B. Nature of appointment:	Regular
C. Qualification:	ME/M. Tech and PhD

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)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	90	90	120	120	120	120	120
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	53	44	62	72	91	95	95
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	0	0	0	0	0	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	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.	53	44	62	72	91	95	98

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]
2024-25 (CAY)	90	0	0	58.89
2023-24 (CAYm1)	90	0	0	48.89
2022-23 (CAYm2)	120	0	0	51.67

Average [(ER1 + ER2 + ER3) / 3] = 53.15≡ 8.00

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	(2020-21) LYG	(2019-20) LYGm1	(2018-19) 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).	91.00	95.00	98.00
B=No. of students who graduated from the program in the stipulated course duration	59.00	48.00	73.00
Success Rate (SR)= (B/A) * 100	64.84	50.53	74.49

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 63.29

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(2023-24)	CAYm2(2022-23)	CAYm3 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	7.40	7.34	7.21
Y=Total no. of successful students	25.00	53.00	48.00
Z=Total no. of students appeared in the examination	44.00	62.00	72.00
API [X*(Y/Z)]	4.20	6.27	4.81

Average API[(AP1+AP2+AP3)/3] : 5.09

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	7.54	7.63	7.22
Y=Total no. of successful students	49.00	46.00	61.00
Z=Total no. of students appeared in the examination	53.00	48.00	75.00
API [X * (Y/Z)]	6.97	7.31	5.87

Average API [(AP1 + AP2 + AP3)/3] : 6.72

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
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)	7.56	7.56	7.74
Y=Total no. of successful students	43.00	59.00	62.00
Z=Total no. of students appeared in the examination	46.00	61.00	75.00
API [X*(Y/Z)]:	7.07	7.31	6.40

Average API [(AP1 + AP2 + AP3)/3] : 6.93

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2020-21)	LYGm1(2019-20)	LYGm2(2018-19)
FS*=Total no. of final year students	120.00	120.00	123.00
X=No. of students placed	28.00	28.00	26.00
Y=No. of students admitted to higher studies	9.00	23.00	26.00
Z=Total no. of students appeared in the examination	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	30.83	42.50	42.28

Average Placement Index = (P_1 + P_2 + P_3)/3: 38.54 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. Soosan George T	XXXXXXX08P	XXXXXXXXXXXXXXXPhD	CUSAT	Transportation Engineering	30/07/2018	6.6	Professor	Professor	30/07/2018	Regular	Yes		No
2	Dr. Reebu Zachariah Koshy	XXXXXXX86P	XXXXXXXXXXXXXXXPhD	IIT Madras	Transportation Engineering	22/05/2017	7.9	Professor	Professor	22/05/2017	Regular	Yes		No
3	Dr. Anitha Joseph	XXXXXXX52F	XXXXXXXXXXXXXXXPhD	IIT Madras	Ocean Engineering	29/06/2019	4	Professor	Professor	29/06/2019	Regular	No	30/06/2023	No
4	Dr. Nivin Philip	XXXXXXX77L	XXXXXXXXXXXXXXXPhD	VIT, Vellore	Structural Engineering	17/12/2018	6.2	Associate Professor	Professor	01/07/2021	Regular	Yes		No

5	Afia S Hameed	XXXXXXX96R	M.E/M.Tech	NIT Calicut	Structural Engineering	16/07/2008	16.7	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Dr. Susan Rose	XXXXXXX11J	XXXXXXXXXXXXXXXPhD	University of Kerala	Transportation Engineering	23/06/2010	14.8	Assistant Professor	Professor	01/10/2022	Regular	Yes		Yes
7	Alice Johny	XXXXXXX27F	M.E/M.Tech	MG University, Kerala	Structural Engineering	03/07/2017	7.7	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Amey Abraham	XXXXXXX51K	M.E/M.Tech	NIT Surathkal	Marine Structures	01/10/2021	3.4	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Ancy Mathew	XXXXXXX91G	M.E/M.Tech	Bangalore University	Structural Engineering	01/09/2015	9.5	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Arsha Giri	XXXXXXX26B	M.E/M.Tech	MG University, Kerala	Environmental Engineering	03/07/2017	7.7	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Arun G Sankar	XXXXXXX57K	M.E/M.Tech	NIT, Surathkal	Environmental Engineering	22/01/2014	9.1	Assistant Professor	Assistant Professor		Regular	No	17/03/2023	No
12	Dr. Jithin Kurian Andrews	XXXXXXX93E	XXXXXXXXXXXXXXXPhD	APJ Abdul Kalam Technological university	Transportation Engineering	02/03/2017	7.11	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Dr. Swapna Thomas	XXXXXXX70M	XXXXXXXXXXXXXXXPhD	NIT Calicut	Geotechnical Engineering	20/09/2007	17.5	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Elsa Jacob Joseph	XXXXXXX77B	M.E/M.Tech	APJ Abdul Kalam Technological university	Geotechnical Engineering	03/07/2017	7.7	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Gayathri Devi M	XXXXXXX42K	M.E/M.Tech	MG University, Kerala	Structural Engineering And Construction Management	01/08/2018	6.6	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Gopika Moorthy	XXXXXXX96E	M.E/M.Tech	MG University, Kerala	Structural Engineering And Construction Management	06/01/2015	10.1	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Hanna Paul	XXXXXXX97D	M.E/M.Tech	CUSAT	Geotechnical Engineering	03/07/2017	7.7	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Lakshmi P	XXXXXXX44J	M.E/M.Tech	MG University, Kerala	Structural Engineering And Construction Management	20/08/2014	10.6	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Joe G Philip	XXXXXXX86K	M.E/M.Tech	Anna University	Geotechnical Engineering	11/06/2012	12.8	Assistant Professor	Assistant Professor		Regular	Yes		No

20	Manoj C M	XXXXXXX22P	M.E/M.Tech	MG University, Kerala	Geomechanics And Structures	07/06/2017	7.8	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Megha Mariam Shaji	XXXXXXX13B	M.E/M.Tech	APJ Abdul Kalam Technological university	Geomechanics And Structures	01/10/2021	3.4	Assistant Professor	Assistant Professor		Regular	Yes		No
22	Milu Mary Jacob	XXXXXXX36F	M.E/M.Tech	Anna University	Structural Engineering	01/08/2006	18.6	Assistant Professor	Assistant Professor		Regular	Yes		No
23	Minu Antony	XXXXXXX40K	M.E/M.Tech	Anna University	Structural Engineering	29/07/2014	10.6	Assistant Professor	Assistant Professor		Regular	Yes		No
24	Nekha Jose	XXXXXXX17A	M.E/M.Tech	University of Calicut	Water Resource Engineering	03/07/2017	7.7	Assistant Professor	Assistant Professor		Regular	Yes		No
25	Nirmal John Joy	XXXXXXX63K	M.E/M.Tech	MG University, Kerala	Geomechanics And Structures	20/08/2014	10.6	Assistant Professor	Assistant Professor		Regular	Yes		No
26	Pinky Merin Philip	XXXXXXX05Q	M.E/M.Tech	MG University, Kerala	Geomechanics And Structures	06/01/2015	10.1	Assistant Professor	Assistant Professor		Regular	Yes		No
27	Rakendu. R	XXXXXXX94D	M.E/M.Tech	MG University, Kerala	Geomechanics And Structures	15/07/2017	7.7	Assistant Professor	Assistant Professor		Regular	Yes		No
28	Reshma B Philip	XXXXXXX50J	M.E/M.Tech	APJ Abdul Kalam Technological university	Structural Engineering And Construction Management	18/10/2021	3.4	Assistant Professor	Assistant Professor		Regular	Yes		No
29	Reshma Kassim	XXXXXXX68M	M.E/M.Tech	Anna University	Construction Engineering &Management	16/07/2018	6.7	Assistant Professor	Assistant Professor		Regular	Yes		No
30	Revathi K S	XXXXXXX61P	M.E/M.Tech	MG University, Kerala	Environmental Engineering	16/07/2018	6.7	Assistant Professor	Assistant Professor		Regular	Yes		No
31	Shyla Joseph A	XXXXXXX36M	M.E/M.Tech	MG University, Kerala	Geomechanics And Structures	22/01/2013	11.5	Assistant Professor	Assistant Professor		Regular	No	29/06/2024	No
32	Sindhu A R	XXXXXXX26Q	M.E/M.Tech	MG University, Kerala	Geomechanics & Structures	15/07/2008	16.7	Assistant Professor	Assistant Professor		Regular	Yes		No
33	Sneha M Varghese	XXXXXXX23N	M.E/M.Tech	University of Kerala	Structural Engineering And Construction Management	15/12/2011	13.2	Assistant Professor	Assistant Professor		Regular	Yes		No

34	Sunitha A Daniel	XXXXXXX19J	M.E/M.Tech	Anna University	Construction Engineering And Management	04/02/2010	15	Assistant Professor	Assistant Professor		Regular	Yes		No
35	Vincent Mathew	XXXXXXX24E	M.E/M.Tech	NIT, Trichy	Environmental Engineering	18/10/2021	1.4	Assistant Professor	Assistant Professor		Regular	No	21/02/2023	No
36	Vincy Koshy	XXXXXXX54R	M.E/M.Tech	MG University, Kerala	Geomechanics And Structures	12/03/2007	17.11	Assistant Professor	Assistant Professor		Regular	Yes		No

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

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):
UG1=1st UG program
UGn=nth UG program
B= No. of Students in UG 2nd year (ST)
C= No. of Students in UG 3rd year (ST)
D= No. of Students in UG 4th year (ST)
No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):
PG1=1st PG program.
PGm=mth PG program
A= No. of Students in PG 1st year
B= No. of Students in PG 2nd year
Student Faculty Ratio **(SFR)** = S/F
S= No. of students of all programs in the Department including all students of allied departments/clusters.
No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)
Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.
F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department1 No. of PG Programs in the Department2
Table No.C2.1: Student-faculty ratio.

Description	**CAY(2024-25)**	**CAYm1 (2023-24)**	**CAYm2 (2022-23)**
UG1.B	90	120	120
UG1.C	120	120	120
UG1.D	120	120	120
UG1: Civil Engineering	**330**	**360**	**360**
PG1.A	12	12	24
PG1.B	12	24	24
PG1: Geomechanics and Structures	**24**	**36**	**48**
PG2.A	18	18	24
PG2.B	18	24	24
PG2: Structural Engineering & Construction Management	**36**	**42**	**48**
DS=Total no. of students in all UG and PG programs in the Department	390	438	456
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
S=Total no. of students in the Department (DS) and allied departments (AS)	**S1=** 390	**S2=** 438	**S3=** 456
DF=Total no. of faculty members in the Department	32	33	34
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=** 32	**F2=** 33	**F3=** 34
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= 12.19**	**SFR2= 13.27**	**SFR3= 13.41**
Average SFR for 3 years	**SFR= 12.96**		

C3. Faculty Qualification

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

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = 2.5 x [(10X + 4Y) / RF)]
2024-25(CAY)	5	27	19.00	20.79
2023-24(CAYm1)	4	29	21.00	18.57
2022-23(CAYm2)	5	29	22.00	18.86

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2024-25	2.00	4.00	4.00	0.00	13.00	28.00
2023-24	2.00	4.00	4.00	0.00	14.00	29.00
2022-23	2.00	4.00	5.00	1.00	15.00	29.00
Average	RF1=2.00	AF1=4.00	RF2=4.33	AF2=0.33	RF2=14.00	AF2=28.67

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	Rintu Kurian, Dania Ovin, Deepa Nishanth, Merin Susan Manu, Divya Rajeev, Ansu Anna Babu, Dewoo Giri	Consultant	S&R Consultants	Xposure by Xbuild (Structural Design and Project Management Training)	54.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Rintu Kurian, Dania Ovin, Deepa Nishanth, Merin Susan Manu, Divya Rajeev, Ansu Anna Babu, Dewoo Giri	Consultant	S&R Consultants	Xposure by Xbuild (Structural Design and Project Management Training)	54.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Rintu Kurian, Dania Ovin, Deepa Nishanth, Merin Susan Manu, Divya Rajeev, Ansu Anna Babu, Dewoo Giri	Consultant	S&R Consultants	Xposure by Xbuild (Structural Design and Project Management Training)	54.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
1	No. of peer reviewed journal papers published	5	7	7
2	No. of peer reviewed conference papers published	12	23	15
3	No. of books/book chapters published	0	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. Jithin Kurian Andrews	Dr. Susan Rose	Civil Engineering	Development of Guidelines for Dense Aggregate Bituminous Mixes as Thin Surface Course Layer for Low Volume Roads.	NITW	3 years	2.86
						Amount received (Rs.):2.86

(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. Nivin Philip		Civil Engineering	Long Term Effect on The Corrosion Resistance of High-Performance Concrete Using Metakaolin	APJKTU-CERD-Research Money Scheme	3 years	1.99
Arsha Giri	Arun G Sankar	Civil Engineering	Treatment of Industrial Wastewater to analyze the Efficiency of Constructed Wetlands	KTU	1 year	0.35
Alice Johny	M. Gayathri Devi	Civil Engineering	Smart Wrap: The Future of Sustainable Building Insulation with Recycled PET and Thermoelectric Materials	KTU	1 year	0.30
Dr. Jithin Kurian Andrews	Dr. Susan Rose	Civil Engineering	Rejuvenation of Scarified Bituminous Pavement Materials	KTU	1 year	0.35
						Amount received (Rs.):2.99

(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. Jithin Kurian Andrews		Civil Engineering	Performance Evaluation of Emulsion Treated Base Layers in Low Volume Roads	DST-SERB	3 years	18.30
Rakendu R		Civil Engineering	Influence of Fill Height on Bending and Shear Behaviour of Two Cell RCC Skew Box Culverts for Road under Bridge (Rub) Design	The Kerala State Council for Science, Technology and Environment (KSCSTE)	1 year	0.10
Dr. Jithin Kurian Andrews		Civil Engineering	Early age strength characteristics of emulsified RAP mixes	The Kerala State Council for Science, Technology and Environment (KSCSTE)	1 year	0.10
						Amount received (Rs.):18.50

Total Amount (Lacs) Received for the Past 3 Years: 24.35

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 Jithin Kurian	-	Civil Engineering	Mix design	PMU RKI Kottayam	2 months	0.15
Dr Nivin Philip	-	Civil Engineering	Mix design	Mr Bibin T	2 months	0.15
Dr Nivin Philip	-	Civil Engineering	Tower design	Aiyyapa Seva Samadhi	1 month	0.71
Dr Nivin Philip	-	Civil Engineering	Mix design	PMU RKI Kottayam	2 months	0.20
Hanna Paul	-	Civil Engineering	Site investigation	PMU RKI Kottayam	1 week	0.02
Joe G Philip	-	Civil Engineering	Site investigation	PMU RKI Kottayam	1 week	0.04
Nekha Jose	-	Civil Engineering	Site investigation	PMU RKI Kottayam	1 week	0.02
Nirmal John Joy	-	Civil Engineering	Site investigatio	PMU RKI Kottayam	1 week	0.09
Rakendu R	-	Civil Engineering	Site investigation	PMU RKI Kottayam	1 week	0.02
Afia S	-	Civil Engineering	Permissible weight	KSHB	3 days	0.03
Alice Johny	-	Civil Engineering	Mix design	Mr. Sinto K. Anto	2 months	0.15
Dr Jithin Kurian	-	Civil Engineering	Site investigation	PMU RKI Idukki	1 week	0.04
Dr Jithin Kurian	-	Civil Engineering	Mix design	PMU RKI Idukki	2 months	0.07
Dr Jithin Kurian	-	Civil Engineering	CTCR	r. Sinto K. Antony	1 week	0.10
Dr Jithin Kurian	-	Civil Engineering	Bc mix design	Mr. Sabu K.	1 week	0.15
Dr Jithin Kurian	-	Civil Engineering	CTCR	Mr. Biju M.	1 week	0.09
Dr Jithin Kurian	-	Civil Engineering	CTCR	Mr. Biju M.	1 week	0.09
Nirmal John Joy	-	Civil Engineering	Mix design	Southern Railway	2 months	0.14
Nirmal John Joy	-	Civil Engineering	Mix design	Southern Railway	2 months	0.14
Dr Jithin Kurian	-	Civil Engineering	Marshal test	Sarak Mathew co KWA	1 month	0.02
Dr Jithin Kurian	-	Civil Engineering	Core test	Sarak Mathew co KWA	1 month	0.18
Joe G Philip	-	Civil Engineering	Vetting	CGL Kochi	1 month	0.03
Lakshmi P	-	Civil Engineering	Marshal test	Mr Eapen C Abraham	1 month	0.18
Dr Jithin Kurian	-	Civil Engineering	Mix design	PMU RKI Kottayam	2 months	0.10
Dr Nivin Philip	-	Civil Engineering	Mix design	PMU RKI Idukki	2 months	0.19
Dr Nivin Philip	-	Civil Engineering	Mix design	PMU RKI Idukki	2 months	0.19
Dr Nivin Philip	-	Civil Engineering	Mix design	PMU RKI Idukki	2 months	0.19
Dr Nivin Philip	-	Civil Engineering	Stability Test	Anil Kumar KV	1 month	0.09
Dr Nivin Philip	-	Civil Engineering	Pull out Test	Ms Anna Mathew	2 weeks	0.12
Joe G Philip	-	Civil Engineering	Vetting	CGL Kochi	1 month	0.03
Nirmal John Joy	-	Civil Engineering	Mix design	LIDEW, LSGSD	2 months	0.16
Dr Jithin Kurian	-	Civil Engineering	Mix design	PMU RKI Kottay	2 months	0.03
Nirmal John Joy	-	Civil Engineering	Site investigation	Southern Railway	1 week	0.10

Nirmal John Joy	-	Civil Engineering	Site investigatio	AE KWA	1 week	0.09
Rakendu R	-	Civil Engineering	Soil stabilization	AE Kottayam Municipality	2 weeks	0.15
Dr Jithin Kurian	-	Civil Engineering	Mix design	PMU RKI Kottayam	2 months	0.15
						Amount received (Rs.):4.40

(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 Nivin Philip	-	Civil Engineering	Site Visit	RKI-PIU	-	0.18
Dr Nivin Philip	-	Civil Engineering	Mix Design	RKI-PIU	-	0.20
Hanna Paul	-	Civil Engineering	Percentage Compaction	RKI-PIU	-	0.05
Jithin Kurian Andrews	-	Civil Engineering	BC Mix Design	RKI-PIU	-	0.14
Jithin Kurian Andrews	-	Civil Engineering	Mix Design	RKI-PIU	-	0.33
Jithin Kurian Andrews	-	Civil Engineering	BC Mix Design	Southern Tech	-	0.15
Jithin Kurian Andrews	-	Civil Engineering	CTSB Mix Design	RKI-PIU	-	0.10
Jithin Kurian Andrews	-	Civil Engineering	Site Visit	RKI-PIU	-	0.04
Nekha Jose	-	Civil Engineering	Percentage Compaction	VM Associates	-	0.05
Nirmal John Joy	-	Civil Engineering	Rebound Hammer	CHAS	-	0.04
Nirmal John Joy	-	Civil Engineering	Cement Stabilization	RKI-PIU	-	0.11
Dr Nivin Philip	-	Civil Engineering	Mix Design	RKI-PIU	-	0.20
Dr Nivin Philip	-	Civil Engineering	Rebound Hammer	AXE PWD Kottayam	-	0.06
Dr Nivin Philip	-	Civil Engineering	Stability Certificate	RKI-PIU	-	0.18
Dr Nivin Philip	-	Civil Engineering	Mix Design	RKI-PIU	-	0.20
Dr Nivin Philip	-	Civil Engineering	Structural Design	Vanitha Mall	-	0.61
Jithin Kurian Andrews	-	Civil Engineering	Mix Design	RKI-PIU	-	0.03
Jithin Kurian Andrews	-	Civil Engineering	Mix Design	RKI-PIU	-	0.10
Jithin Kurian Andrews	-	Civil Engineering	Percentage Compaction	RKI-PIU	-	0.06
Jithin Kurian Andrews	-	Civil Engineering	Mix Design	Southern Tech	-	0.10
Jithin Kurian Andrews	-	Civil Engineering	Mix Design	RKI-PIU	-	0.15
Joe G Philip	-	Civil Engineering	Cement Stabilization	RKI-PIU	-	0.06
Lakshmi P	-	Civil Engineering	Rebound Hammer	LSGD	-	0.04
Nirmal John Joy	-	Civil Engineering	Cement Stabilization	Southern Tech	-	0.36
Dr Nivin Philip	-	Civil Engineering	Rebound Hammer	RKI-PIU	-	0.04
Dr Nivin Philip	-	Civil Engineering	Core Cutting	Irrigation Dept Kerala	-	0.13
Dr Nivin Philip	-	Civil Engineering	Rebound Hammer	RKI-PIU	-	0.04
Dr Nivin Philip	-	Civil Engineering	Rebound Hammer	RKI-PIU	-	0.04
Dr Nivin Philip	-	Civil Engineering	Rebound Hamm	RKI-PIU	-	0.07
Gayathri Devi	-	Civil Engineering	Rebound Hamm	RKI-PIU	-	0.03
Hanna Paul	-	Civil Engineering	Percentage Compaction	RKI-PIU	-	0.03
Hanna Paul	-	Civil Engineering	DCP Test	RKI-PIU	-	0.03
Jithin Kurian Andrews	-	Civil Engineering	CTSB Mix Design	IKA	-	0.10

Jithin Kurian Andrews	-	Civil Engineering	Percentage Compaction	RKI-PIU	-	0.02
Jithin Kurian Andrews	-	Civil Engineering	Mix Design	Bibin Thomas Associates	-	0.08
Nirmal John Joy	-	Civil Engineering	Rebound Hammer	Cubex India	-	0.04
Dr Nivin Philip	-	Civil Engineering	Mix Design,Site Visit	RBI-PIU	-	0.44
						Amount received (Rs.):4.63

(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
Nirmal John Joy	-	Civil Engineering	Mix Design	PWD Kottayam	-	0.12
Sindhu AR	-	Civil Engineering	Blanket Design	Southern Railway	-	0.15
Nekha Jose	-	Civil Engineering	Mix Design	PMU RKI Kottayam	-	0.20
Dr Jithin Kurian Andrews	-	Civil Engineering	Pavement Design	AE Kottayam	-	0.10
Dr Nivin Philip	-	Civil Engineering	Stability Certificate	Mr Benny Joseph	-	0.12
Dr Nivin Philip	-	Civil Engineering	NDT	AE KSEB Civil Section	-	0.07
Dr Nivin Philip	-	Civil Engineering	Stability Certificate	Arnold Eductional Charitable Trust	-	0.84
						Amount received (Rs.):1.60

Total amount (Lacs) received for the past 3 years: 10.63
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. Nivin Philip	Establishment of Research Lab-3 D Printing Lab	2 years	36.47	36.47	1 PhD research, 2 M.Tech. research projects
Alice Johny	Eco-friendly Natural Fiber Composites for Diverse Applications	1 year	0.08	0.08	2 Conference
Dr. Nivin Philip	Effectiveness of Bacteria-Based Self – Healing Concrete Under Corrosive Environment	1 year	0.03	0.03	1 Publication
Dr. Nivin Philip	Enhancing Sustainability and Performance of 3D Printing Mortar with Alccofine 1203, GGBS and Kaolin	1 year	0.04	0.04	1 Publication
Er. Jithin Kurian Andrews	TRB Conference at Washington DC,USA	Jan 2024	0.50	0.50	1 Publication
			Amount received (Rs.): 37.12		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr. Nivin Philip	Long Term Effect on The Corrosion Resistance of High-Performance Concrete Using Metakaolin	3 Year	1.17	1.17	5 publications, 4 M.Tech, 3 B.Tech (12 UG students)
Dr. Nivin Philip	Correlation of Mechanical Properties of Concrete with Partial Metacaolin Replacement	1 Year	0.04	0.04	1 Publication
Er. Sneha M. Varghese	Automated Water Level Monitoring System for Meenachil River	2 Year	0.08	0.08	1 B.Tech. Project (4 students)
Er. Jithin Kurian/Dr.Reebu Z. Koshy	Field Investigation of material layer properties for emulsion treated base layer application	2023	0.05	0.05	1 Publication
Er. Jithin Kurian/Dr.Reebu Z. Koshy	Evaluation of deflection bowl parameters in low volume road	2023	0.03	0.03	1 Publication
Er. Jithin Kurian Andrews	Construction and evaluation of low volume roads incorporating	2023	0.02	0.02	1 Publication
			Amount received (Rs.): 1.39		

(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
Er. Hanna Paul	Experimental Study on the Embankment Widening	3 Year	0.60	0.60	1 M.Tech student 2 Publications
			Amount received (Rs.): 0.60		

Total amount (Lacs) received for the past 3 years : 39.11

PART D: Laboratory Infrastructure in the Department

(Data to be filled in for the Department)

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

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

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Civil Engineering Workshop	30	Dumpy Level	S1 and S2 Stu	Mr. Rajeshkumar A R	Tradesman – Grade 2 (Fit	NCVT (Mechanical)
2	Survey Laboratory	30	Ebase Geodetic GNSS receiver, F8 receiver, FC2 handheld controller, Pole	Semester 4 Stu	Mr. Kurian Varghese	Lab Instructor – Grade 1	Surveyor Topographical
3	Civil Engineering Design Studio	30	Desktop PC	Semester 3, 6	Mr. T Prasanth	Deputy System Administra	B. Sc Mathematics

4	Material Testing Laboratory – I	30	Universal Testing Machine – 50T	Semester 3 stu	Mr. Rajeshkumar A R	Tradesman – Grade 2 (Fit	NCVT (Mechanical)
5	Material Testing Laboratory – II	30	Compression Testing Machine	Semester 5 Stu	Mr. Abin C Abraham	Tradesman Grade 2	NCVT (Civil).
6	Geotechnical Engineering Laboratory	30	Direct Shear Testing Machine (Digital), Consolidometer apparatus, Permeameter, Swell Pressure Test	Semester 5 stu	Mr. Jojo Thomas	Trade Instructor – Grade I	NCVT (Civil).
7	Transportation Engineering Laboratory	30	Benkelman Beam, Marshall Stability Test,	Semester 6 stu	Mrs. Neetha Babu	Trade Instructor – Grade I	NCVT (Civil), Chain Surve
8	Environmental Engineering Laboratory	30	Flocculator.	Semester 7 stu	Mrs. Neetha Babu	Trade Instructor – Grade I	NCVT (Civil), Chain Surve

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Civil Engineering Workshop	• Fire Extinguisher – Powder type • First Aid Kit • Safety instruction for users
2	Survey Laboratory	• Fire Extinguisher – Powder type • First Aid Kit • Safety instruction for users
3	Civil Engineering Design Studio	• Fire Extinguisher – Powder type • First Aid Kit • Safety instruction for users. • Miniature circuit breakers
4	Material Testing Laboratory – I	• Fire Extinguisher – Powder type • First Aid Kit • Safety instruction for users. • Miniature circuit breakers
5	Material Testing Laboratory – II	• Fire Extinguisher – Powder type • First Aid Kit • Safety instruction for users. • Miniature circuit breakers
6	Geotechnical Engineering Laboratory	• Fire Extinguisher – Powder type • First Aid Kit • Safety instruction for users • Fire Bucket with sand • Miniature Circuit Breakers

7	Transportation Engineering Laboratory	• Fire Extinguisher – Powder type • First Aid Kit • Safety instruction for users • Miniature Circuit Breakers
8	Environmental Engineering Laboratory	• Fire Extinguisher – Powder type • First Aid Kit • Safety instruction for users • Miniature circuit breakers • Safety gloves and goggles for handling abrasive chemicals. • Exhaust fan for dissipating the chemical fumes.

D3. Project Laboratory/Research Laboratory

Table No. 7.5.1: List of project laboratory/research laboratory /Centre of Excellence.	
S.N.	Name of the Laboratory
1	Advanced Structural Laboratory
2	Concrete 3D Printing Laboratory – established with support from industry. (Tvasta)
3	Center of Excellence
4	Project Lab

Advanced Structural Laboratory

This Laboratory is unique of its kind, as it houses testing facilities for structural components and full-scale structural members. Laboratory provides several additional advanced facilities such as NDT Schdmit Rebound hammer, water permeability apparatus, loading frame of 30-ton capacity and so on.

Figure 7.5.1: NDT Equipment:Schmidt Rebound Hammer

Figure 7.5.2: Water Permeability Apparatus.

Figure 7.5.3: Loading frame,30 Ton, Lateral load-Scale model coupled shear wall testing

Figure 7.5.4:Pull off testing machine to find the bond strength of cover concrete

Project Laboratory

The Project Laboratory in the Civil Engineering Department serves as a dynamic platform for innovation, skill development, and research excellence. This facility is designed to nurture students' technical competencies while providing a collaborative environment for hands-on learning and practical problem-solving.

The lab plays a pivotal role in enhancing students' research capabilities by encouraging them to undertake real-world projects that integrate theoretical knowledge with practical applications. It offers the necessary infrastructure, tools, and expert guidance to design, develop, and execute both mini and major projects. By engaging in independent and group-based research, students cultivate critical thinking, creativity, and a problem-solving mindset essential for professional success.

Beyond student development, the Project Laboratory empowers faculty members to explore and implement advanced research initiatives. It serves as an incubator for innovation, enabling faculty to mentor students in groundbreaking projects and develop future research endeavors in civil engineering. Through this synergy, the lab fosters a culture of continuous learning and knowledge creation, contributing to advancements in construction, structural engineering, transportation, environmental sustainability, and smart infrastructure.

With strong institutional support, the Project Laboratory ensures that students and faculty are well-equipped to address industry challenges, drive sustainable development, and lead future innovations in civil engineering.

Centre of Excellence in Concrete 3-D Printing

Concrete 3D Printing represents a transformative innovation in the field of Civil Engineering, offering unprecedented advantages in construction speed, design flexibility, material efficiency, and sustainability. As the industry shifts toward automation and digital fabrication, Concrete 3D Printing is rapidly emerging as a key enabler for next-generation construction practices, especially in areas such as affordable housing, infrastructure development, and sustainable design. Recognizing the importance of this emerging technology, the Department of Civil Engineering has established a Centre of Excellence in Concrete 3-D Printing. The Centre aims to serve as a platform for interdisciplinary research, industry collaboration, academic training, and innovation in additive manufacturing for the built environment.

Figure 7.5.1. Centre of Excellence in Concrete 3D Printing

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
2022-23(CAYm2)	780	39	20	21	52
2023-24(CAYm1)	780	39	19	23	51
2024-25(CAY)	720	36	17	22	50

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 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Infrastructure Built-Up	70000000	28333652	15071223	8759975	6935472	6799482	141200187	134476369
Library	10661906	9062620	8257357	8095449	1432597	1404507	2163478	2003220
Laboratory equipment	21472933	18251993	36671420	27708687	15631931	26961535	15156374	13904930

Teaching and non-teaching staff salary	234501000	163666239	242598966	220241069	210280234	234400418	217775159	209399191
Outreach Programs	4701447	4274042	4833370	4393972	3654980	3322709	0	00
R&D	2775138	2358867	2340834	3093322	1919766	1828349	608546	585140
Training, Placement and Industry linkage	3367722	2862564	3395799	3551014	2859616	2723444	2682057	2603939
SDGs	12406240	11077001	8158962	7094750	1936708	1684094	1255274	1091542
Entrepreneurship	3488525	3033500	997152	949669	1301909	1239913	2853725	2717833
Others, specify	205548089	154497205	232721954	227471586	224276787	227957554	211559683	205492447
Total	**568923000**	**397417683**	**555047037**	**511359493**	**470230000**	**508322005**	**595254483**	**572274611**

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 2024-2025**	**Actual Expenses in 2024-2025 till**	**Budgeted in 2023-2024**	**Actual Expenses in 2023-2024 till**	**Budgeted in 2022-2023**	**Actual Expenses in 2022-2023 till**	**Budgeted in 2021-2022**	**Actual Expenses in 2021-2022 till**
Laboratory equipment	3348110	2193113	401770	293807	367280	285970	328900	360731
Software	585000	446500	873220	798456	556080	855500	1041100	1028080
SDGs	3457600	3319946	394360	315869	486835	513686	167250	167707
Support for faculty development	0	0	75000	30170	0	0	93000	93000
R & D	71000	51019	503520	262226	251000	38500	147500	0
Industrial Training, Industry expert, Internship	0	0	25000	0	0	50000	00	0
Miscellaneous Expenses*	449426	340326	511166	223504	333000	232747	475000	208201
Total	**7911136**	**6350904**	**2784036**	**1924032**	**1994195**	**1976403**	**2252750**	**1857719**