NATIONAL BOARD OF ACCREDITATION

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

Program Name : Electrical & Electronics Engineering	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 1
Application No: 12086	**Date of Submission**: 10-09-2026

PART A- Profile of the Institute

A1.Name of the Institute: SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY	
Year of Establishment : 1998	Location of the Institute: COIMBATORE
A2. Institute Address:SUGUNAPURAM KUNIAMUTHUR POST	
City:COIMBATORE	State:Tamil Nadu
Pin Code:641008	Website:www.skcet.ac.in
Email:INFO@SKCET.AC.IN	Phone No(with STD Code):0422-2678001
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: Self-Supported Institute	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **13**
- No. of PG programs: **7**

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	PG	Applied Electronics	2011	2026	Electronics and Communication Engineering
2	Engineering & Technology	UG	Artificial Intelligence and Data Science	2020	--	Artificial Intelligence and Data Science
3	Engineering & Technology	UG	Civil Engineering	2012	--	Civil Engineering
4	Engineering & Technology	PG	Computer Science & Engineering (Integrated)	2019	--	Computer Science and Engineering
5	Engineering & Technology	UG	Computer Science and Business System	2019	--	Computer Science and Business System
6	Engineering & Technology	UG	Computer Science and Design	2022	2025	Computer Science and Design
7	Engineering & Technology	PG	Computer Science and Engineering	2004	--	Computer Science and Engineering
8	Engineering & Technology	UG	Computer Science and Engineering	1998	--	Computer Science and Engineering

9	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2025	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
10	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2022	--	Computer Science and Engineering (Cyber Security)
11	Engineering & Technology	UG	Computer Science and Engineering (Internet of Things)	2025	2026	Computer Science and Engineering (Internet of Things)
12	Engineering & Technology	UG	Electrical and Electronics Engineering	2001	--	Electrical and Electronics Engineering
13	Engineering & Technology	UG	Electronics & Communication Engineering	1998	--	Electronics and Communication Engineering
14	Engineering & Technology	PG	Engineering Design	2012	2026	Mechanical Engineering
15	Engineering & Technology	UG	Information Technology	1998	--	Information Technology
16	Engineering & Technology	UG	Mechanical Engineering	1998	--	Mechanical Engineering
17	Engineering & Technology	UG	Mechatronics Engineering	2000	--	Mechatronics Engineering
18	Engineering & Technology	PG	Power Systems Engineering	2025	2026	Electrical and Electronics Engineering
19	Engineering & Technology	PG	Structural Engineering	2025	--	Civil Engineering
20	Management	PG	Master of Business Administration	2001	--	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

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	Electrical and Electronics Engineering	UG	2001 / --	40	Yes	2025	258	2025	AICTE - F.No.Southern/1-44641922094/2025/EOA	Granted accreditation for 3 years for the period (specify period)	2023	2026	3	4

Sanctioned Intake for Last Five Years for the Power Systems Engineering	
Academic Year	**Sanctioned Intake**
2025-26	258
2024-25	138
2023-24	138
2022-23	138
2021-22	120
2020-21	120

List of the Allied Departments/Cluster and Programs:

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

A. Name of the HoD :	Dr. K.C.Ramya
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)	258	138	138	138	120	120	180
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	245	136	138	137	111	104	158
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	11	11	14	22	20	9
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	2	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.	245	147	151	151	133	124	167

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)	258	245	0	94.96
2024-25 (CAYm1)	138	136	0	98.55
2023-24 (CAYm2)	138	138	2	101.45

Average [(ER1 + ER2 + ER3) / 3] = 98.32≡ 20.00

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).	132.00	132.00	189.00
B=No. of students who graduated from the program in the stipulated course duration	118.00	111.00	153.00
Success Rate (SR)= (B/A) * 100	89.39	84.09	80.95

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 84.81

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)	7.86	7.69	7.53
Y=Total no. of successful students	136.00	140.00	137.00
Z=Total no. of students appeared in the examination	136.00	140.00	137.00
API [X*(Y/Z)]	7.86	7.69	7.53

Average API[(AP1+AP2+AP3)/3] : 7.69

B7: Academic Performance of the Second Year Students of the Program

Table No.B7.1: Academic Performance of the Second Year Students of the Program.

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	7.75	7.65	7.54
Y=Total no. of successful students	151.00	149.00	128.00
Z=Total no. of students appeared in the examination	151.00	151.00	133.00
API [X * (Y/Z)]	7.75	7.55	7.26

Average API [(AP1 + AP2 + AP3)/3] : 7.52

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)	7.65	7.61	8.01
Y=Total no. of successful students	149.00	128.00	121.00
Z=Total no. of students appeared in the examination	149.00	128.00	121.00
API [X*(Y/Z)]:	7.65	7.61	8.01

Average API [(AP1 + AP2 + AP3)/3] : 7.76

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	132.00	132.00	189.00
X=No. of students placed	113.00	107.00	151.00
Y=No. of students admitted to higher studies	5.00	6.00	6.00
Z= No. of students taking up entrepreneurship	2.00	2.00	2.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	90.91	87.12	84.13

Average Placement Index = (P_1 + P_2 + P_3)/3: 87.39 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. K.C.Ramya	XXXXXXX47B	Ph.D	Karunya University	Power Electronics and Industrial Drives	01/08/2017	9	Assistant Professor	Professor	04/01/2021	Regular	Yes		Yes
2	Dr. K.Porkumaran	XXXXXXX35A	Ph.D	Anna University	Control Systems	19/06/2024	2.1	Professor	Professor	19/06/2024	Regular	Yes		No
3	Dr. K.S.Sujatha	XXXXXXX02K	Ph.D	Anna University	Applied Electronics	19/09/2025	0.10	Professor	Professor	19/09/2025	Regular	Yes		No
4	Dr. Lijo Jacob Varghese	XXXXXXX40M	Ph.D	Anna University	Power Electronics and Drives	01/07/2025	1	Professor	Professor	01/07/2025	Regular	Yes		No
5	Dr. S.Sivaranjani	XXXXXXX94B	Ph.D	Anna University	Power Electronics and Drives	06/06/2018	8.1	Assistant Professor	Professor	04/01/2021	Regular	Yes		No

6	Dr. R.Sumathi	XXXXXXX86J	Ph.D	Anna University	Process Control and Instrumentation	01/06/2016	10.2	Associate Professor	Professor	23/01/2017	Regular	Yes		No
7	Dr. A.Radhika	XXXXXXX35A	Ph.D	Anna University	Power Electronics and Drives	06/06/2008	18.1	Lecturer	Professor	01/09/2018	Regular	Yes		No
8	Dr. J.Karthika	XXXXXXX36R	Ph.D	Anna University	Applied Electronics	18/06/2007	19.1	Lecturer	Professor	02/06/2021	Regular	Yes		No
9	Dr. G.Sophia Jasmine	XXXXXXX77P	Ph.D	Anna University	Power Systems Engineering	01/07/2025	1	Associate Professor	Associate Professor	01/07/2025	Regular	Yes		No
10	Dr. J.Jency Joseph	XXXXXXX97M	Ph.D	Anna University	Electric Drives and Embedded Control	01/07/2025	1	Associate Professor	Associate Professor	01/07/2025	Regular	Yes		No
11	Dr. B.Karthikeyan	XXXXXXX47D	Ph.D	Anna University	Power Systems Engineering	22/06/2021	5.1	Associate Professor	Associate Professor	22/06/2021	Regular	Yes		No
12	Dr. K.Muthukumar	XXXXXXX38M	Ph.D	Karpagam Academy of Higher Education	Embedded System Technologies	02/01/2023	3.6	Associate Professor	Associate Professor	02/01/2023	Regular	Yes		No
13	Dr. G.Radhakrishnan	XXXXXXX82C	Ph.D	Anna University	Power Systems Engineering	02/05/2017	9.3	Assistant Professor	Associate Professor	02/07/2018	Regular	Yes		No
14	Dr. D.Magdalin Mary	XXXXXXX04L	Ph.D	Anna University	Control and Instrumentation	01/07/2025	1	Associate Professor	Associate Professor	01/07/2025	Regular	Yes		No
15	Dr. P.Vinoth Kumar	XXXXXXX83E	Ph.D	St.Peter's Institute of Higher Education and Research	Power Electronics and Drives	01/09/2020	5.10	Associate Professor	Associate Professor	01/09/2020	Regular	Yes		No
16	Dr. S.Jaisiva	XXXXXXX68C	Ph.D	Anna University	Power Systems Engineering	01/07/2025	1	Associate Professor	Associate Professor	01/07/2025	Regular	Yes		No
17	Dr. N.Manonmani	XXXXXXX58E	Ph.D	Anna University	Power Systems Engineering	17/06/2004	22.1	Lecturer	Professor	02/05/2015	Regular	Yes		No
18	Dr. N.Loganathan	XXXXXXX06C	Ph.D	Anna University	Power Systems Engineering	08/06/2018	8.1	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Dr. K.P.Suresh	XXXXXXX85A	Ph.D	Anna University	Power Electronics and Drives	01/07/2025	1	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Dr. K.Prithivi	XXXXXXX63H	Ph.D	Anna University	Power Electronics and Drives	01/07/2025	1	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Dr. Ajith.B.Singh	XXXXXXX07K	Ph.D	Anna University	Control and Instrumentation	01/07/2025	1	Assistant Professor	Assistant Professor		Regular	Yes		No
22	Dr. V.S.Sanjana Devi	XXXXXXX50Q	Ph.D	Anna University	Applied Electronics	01/07/2025	1	Assistant Professor	Assistant Professor		Regular	Yes		No

23	Dr. P.Selvabharathi	XXXXXXX08C	Ph.D	Anna University	Power Electronics and Drives	09/06/2025	1.1	Assistant Professor	Assistant Professor		Regular	Yes		No
24	Dr. J.Dhanaselvam	XXXXXXX59Q	Ph.D	Anna University	Control and Instrumentation	01/07/2025	1	Assistant Professor	Assistant Professor		Regular	Yes		No
25	Dr. K.Vishnu Murthy	XXXXXXX13A	Ph.D	Anna University	Electric Drives and Embedded Control	01/07/2025	1	Assistant Professor	Assistant Professor		Regular	Yes		No
26	Ms. R.Geethamani	XXXXXXX46F	M.E.	Anna University	Applied Electronics	14/07/2008	18	Lecturer	Assistant Professor		Regular	Yes		No
27	Mr. S.Bagavathy	XXXXXXX82F	M.E.	Anna University	Power Electronics and Drives	26/06/2009	17.1	Lecturer	Assistant Professor		Regular	Yes		No
28	Ms. G.Mahalakshmi	XXXXXXX37A	M.E.	Anna University	Power Electronics and Drives	29/12/2014	11.7	Assistant Professor	Assistant Professor		Regular	Yes		No
29	Ms. T.Malini	XXXXXXX86H	M.E.	Karpagam University	Power Systems Engineering	10/05/2017	9.2	Assistant Professor	Assistant Professor		Regular	Yes		No
30	Mr. R.Kavin	XXXXXXX57L	M.E.	Anna University	Power Electronics and Drives	15/05/2017	9.2	Assistant Professor	Assistant Professor		Regular	Yes		No
31	Ms. C.Pavithra	XXXXXXX85D	M.E.	Anna University	Electrical Drives and Embedded Control	01/06/2012	14.2	Assistant Professor	Assistant Professor		Regular	Yes		No
32	Mr. V.V.Vineeth	XXXXXXX17K	M.Tech	Amrita Vishwa Vidyapeetham	Embedded Systems	13/10/2014	11.9	Assistant Professor	Assistant Professor		Regular	Yes		No
33	Ms. N.Subha Lakshmi	XXXXXXX31D	M.E.	Anna University	Power Electronics and Drives	01/06/2016	10.2	Assistant Professor	Assistant Professor		Regular	Yes		No
34	Mr. S.Karthikeyan	XXXXXXX70D	M.E.	Anna University	Power Electronics and Drives	29/05/2017	9.2	Assistant Professor	Assistant Professor		Regular	Yes		No
35	Ms. V.Manimegalai	XXXXXXX69Q	M.E.	Anna University	Applied Electronics	23/06/2025	1.1	Assistant Professor	Assistant Professor		Regular	Yes		No
36	Mr. R.Harish	XXXXXXX57G	M.E.	Anna University	Power Systems Engineering	23/06/2025	1.1	Assistant Professor	Assistant Professor		Regular	Yes		No
37	Ms. S.Abirami	XXXXXXX91G	M.E.	Anna University	Power Electronics and Drives	09/06/2025	1.1	Assistant Professor	Assistant Professor		Regular	Yes		No
38	Dr. K.Jeevitha	XXXXXXX68G	Ph.D	Anna University	Power System Engineering	23/06/2025	0.6	Assistant Professor	Assistant Professor		Regular	No	30/12/2025	No
39	Dr. T.Kokilavani	XXXXXXX13F	Ph.D	Anna University	Power Electronics and Drives	02/03/2021	4.2	Assistant Professor	Associate Professor	01/03/2023	Regular	No	30/05/2025	No

40	Mr. S.Boobalan	XXXXXXX85C	M.E.	Anna University	Control and Instrumentatio n Engineering	29/05/2017	8	Assistant Professor	Assistant Professor		Regular	No	30/05/2025	No
41	Ms. N.Subhashini	XXXXXXX40D	M.E.	Anna University	Power Systems Engineering	06/05/2016	9	Assistant Professor	Assistant Professor		Regular	No	30/05/2025	No
42	Dr. Ramji Tiwari	XXXXXXX55N	Ph.D	Vellore Institute of Technology	Power Electronics and Drives	01/09/2020	3.9	Assistant Professor	Assistant Professor		Regular	No	21/06/2024	No
43	Mr. T.Nandha Kumar	XXXXXXX29B	M.E.	Anna University	Power Electronics and Drives	06/05/2016	8	Assistant Professor	Assistant Professor		Regular	No	31/05/2024	No
44	Ms. B.Selva Priya	XXXXXXX60R	M.E.	Anna University	Power Electronics and Drives	24/02/2020	5.3	Assistant Professor	Assistant Professor		Regular	No	30/05/2025	No
45	Mr. P.Shanmuga Aravind	XXXXXXX28N	M.E.	Anna University	Control and Instrumentation Engineering	02/08/2021	2.9	Assistant Professor	Assistant Professor		Regular	No	31/05/2024	No
46	Ms. D.Dhivyaa	XXXXXXX16D	M.E.	Anna University	Power Electronics and Drives	02/08/2021	2.9	Assistant Professor	Assistant Professor		Regular	No	31/05/2024	No
47	Ms. V.Vidhyapriya	XXXXXXX84D	M.E.	Anna University	Applied Electronics	06/06/2022	1.11	Assistant Professor	Assistant Professor		Regular	No	31/05/2024	No
48	Ms. A.Minupriya	XXXXXXX26K	M.E.	Anna University	Control Systems	06/06/2022	1.11	Assistant Professor	Assistant Professor		Regular	No	31/05/2024	No
49	Dr. S.Sheeba Rani Gnanamalar	XXXXXXX83D	Ph.D	University of Madras	Embedded System Technologies	04/05/2017	7	Assistant Professor	Professor	02/06/2021	Regular	No	31/05/2024	No
50	Dr. T.Bharani Prakash	XXXXXXX65D	Ph.D	Anna University	Power Electronics and Drives	01/07/2025	1.1	Assistant Professor	Assistant Professor		Regular	Yes		No
51	Ms. A.Elakya	XXXXXXX48B	M.E.	Anna University	Applied Electronics	01/07/2025	1.1	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 Department1

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

Description	**CAY(2025-26)**	**CAYm1 (2024-25)**	**CAYm2 (2023-24)**
UG1.B	149	149	151
UG1.C	149	151	132
UG1.D	151	132	132
UG1: Electrical and Electronics Engineering	**449**	**432**	**415**
PG1.A	12	0	0
PG1.B	0	0	0
PG1: Power Systems Engineering	**12**	**0**	**0**
DS=Total no. of students in all UG and PG programs in the Department	461	432	415
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=** 461	**S2=** 432	**S3=** 415
DF=Total no. of faculty members in the Department	38	25	31
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=** 38	**F2=** 25	**F3=** 31
FF=The faculty members in F who have a 100% teaching load in the first-year courses	3	2	2
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 12.46**	**SFR2= 17.28**	**SFR3= 14.31**
Average SFR for 3 years	**SFR= 14.68**		

C3. Faculty Qualification

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

Table No.C3.1: Faculty qualification.

Year	**X**	**Y**	**RF**	**FQ = 2.5 x [(10X + 4Y) / RF)]**
2025-26(CAY)	24	16	23.00	33.04
2024-25(CAYm1)	13	14	21.00	22.14
2023-24(CAYm2)	13	18	20.00	25.25

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	3.00	8.00	5.00	8.00	15.00	22.00
2024-25	2.00	7.00	5.00	5.00	14.00	13.00
2023-24	2.00	7.00	5.00	5.00	14.00	19.00
Average	RF1=2.33	AF1=7.33	RF2=5.00	AF2=6.00	RF2=14.33	AF2=18.00

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	Ms.Alies Lejo	PoP Associate Professor	MARVEL	23CS301 / Advanced Java Programming	30.00
2	Ms.Alies Lejo	PoP Associate Professor	MARVEL	23EC302 / Operating Systems for Electronic Devices	30.00
3	Mr. Pandiya Rajan R	PoP Associate Professor	AIRNET NETWORKS PRIVATE LIMITED	23IT211 / Introduction To Python Programming	30.00
4	Mr. Pandiya Rajan R	PoP Associate Professor	AIRNET NETWORKS PRIVATE LIMITED	23EC403 / Embedded C++	30.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Ms.Alies Lejo	PoP Associate Professor	MARVEL	22CS201 / Data Structures and Algorithms	30.00
2	Ms.Alies Lejo	PoP Associate Professor	MARVEL	22CS301/ Advanced Java Programming	30.00
3	Mr.Pandiya Rajan R	PoP Associate Professor	AIRNET NETWORKS PRIVATE LIMITED	21EE007 / Machine Learning Applications in Energy Systems	54.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. B.Sangeetha	Technical Lead	Photonics, Salem	20EE007 / Machine Learning Applications in Energy Systems	54.00

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	32	22	19
2	No. of peer reviewed conference papers published	28	24	48
3	No. of books/book chapters published	6	26	5

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. A.Radhika		Electrical and Electronics Engineering	Solar Based Integrated Desalination and Salinity Monitoring System	TNSDC Project (Nan Muthalvan)	6 Months	0.10
Dr. J.Karthika		Electrical and Electronics Engineering	Innovative poultry litter management	TNSDC Project (Nan Muthalvan)	6 Months	0.10
Dr. N.Loganathan		Electrical and Electronics Engineering	Dynamic Energy Scheduling In Smart Grids With Renewable Resources	TNSDC Project (Nan Muthalvan)	6 Months	0.10
Mr. S.Bagavathy		Electrical and Electronics Engineering	Smart Quality Monitoring System for Jaggery	TNSDC Project (Nan Muthalvan)	6 Months	0.10
Ms. G.Mahalakshmi	Dr. J.Karthika	Electrical and Electronics Engineering	Charge to Voltage converter for piezoelectric sensor	ISRO Respond Basket	30 Months	2.29
Dr. K.C.Ramya	Dr. S.Sivaranjani	Electrical and Electronics Engineering	Climatic Crisis and Mitigation by Sustainable Development of Energy and Environment Systems	ATAL - AICTE Training And Learning (ATAL) Academy	6 days	1.00
						Amount received (Rs.):3.69

(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. Sheeraz Kirmani (Aligarh Muslim University)	Dr. G.Radhakrishnan Dr. P.Vinoth Kumar ,Dr.Mohd Rizwan Khalid	Electrical and Electronics Engineering	Decarbonization and Transformation of the Electricity Generation using Solar-Wind System for Economic Enhancement of Palamalai Irular Tribes	DST-CEST Division	3 Years	79.48
Ms. G.Mahalakshmi		Electrical and Electronics Engineering	Solar Powered BLDC Motor with ZETA Converter for Surgical Robot	TNSCST Student Proposal	6 Months	0.08
Mr. S.Karthikeyan		Electrical and Electronics Engineering	Design and development of Atmospheric Dust Collector for Tackling Fugitive Dust Emissions from Stone Crushing Units and Crematoriums	TNSDC Project (Nan Muthalvan)	6 Months	0.10
Ms. C.Pavithra		Electrical and Electronics Engineering	Efficient OBEO MPPT Controller for PV under partial and dynamic shading condition	TNSDC Project (Nan Muthalvan)	6 Months	0.10
						Amount received (Rs.):79.76

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. B.Karthikeyan	Dr. P.Vinothkumar	Electrical and Electronics Engineering	A Smart Battery Management System for Electric Vehicle	Pinnacle Lithium Power, Coimbatore	12 Months	0.60
						Amount received (Rs.):0.60

Total Amount (Lacs) Received for the Past 3 Years: 84.05

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. A.Radhika	Dr. J.Karthika	Electrical and Electronics Engineering	Solar Based Portable Water Purifier	Precision CNC, Coimbatore	6 Months	0.15
Dr. P.Vinoth Kumar	Ms. T.Malini	Electrical and Electronics Engineering	Electromagnetic Modelling and Performance Analysis of Submersible Pumps	Matsya AgroTech Solutions, Coimbatore	7 Days	0.20
Dr. G.Radhakrishnan	Dr. B.Karthikeyan	Electrical and Electronics Engineering	Electrical Energy Audit and Power Quality Assessment	Subashri System, Udumalpet	1 Day	0.40
Dr. B.Karthikeyan	Dr. N.Loganathan	Electrical and Electronics Engineering	Energy Auditing	Padmavahini Transformers Private Limited, Coimbatore	1 Day	0.35
Dr. G.Radhakrishnan	Dr. K.Muthukumar	Electrical and Electronics Engineering	Energy Auditing	CMS Vidya Mandir School, Coimbatore	1 Day	0.35
						Amount received (Rs.):1.45

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. K.C.Ramya	Mr. S.Boobalan ,Dr. Ramji Tiwari	Electrical and Electronics Engineering	Integration and Fabrication of Solar Power and Advanced Battery Management System in Electric Passenger Vehicles	Pinnacle Lithium Power, Coimbatore	15 Months	6.90
Dr. G.Radhakrishnan	Dr. T.Kokilavani	Electrical and Electronics Engineering	Power Quality Assessment	Sai Vortex Energy Solutions, Coimbatore	1 day	0.25
Dr. J.Indirapriyadharshini , Dr. K.Ananthi	Ms. T.Malini	MCT,MCT,EEE	IoT based Smart Helmet for Industrial workers	Eswara Agro and Engg Agencies, Coimbatore	24 Months	1.65
Dr. S.Dinesh Dr. R.Manikandan	Mr. S.Karthikeyan	MCT,MCT,EEE	Design and Fabrication of Solar Food Dryer	FlickerHiVe, Coimbatore	24 Months	2.20
						Amount received (Rs.):11.00

(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. B.Karthikeyan	Dr. T.Kokilavani	Electrical and Electronics Engineering	Performance Evaluation and Energy Optimization of Motor-Driven Pumping Systems	XPT Motors and Pumps, Coimbatore	2 days	0.40
Dr. P.Vinoth Kumar	Ms. C.Pavithra	Electrical and Electronics Engineering	Design, Testing and Performance Analysis of CT/PT Units for Electrical Power Systems	PGR Transformers, Coimbatore	15 days	0.50
Dr. S.Sivaranjani	Mr. S.Karthikeyan	Electrical and Electronics Engineering	Energy Auditing	Sivasakthi Precision Tools, Coimbatore	1 Day	0.15
Dr. G.Radhakrishnan	Mr. N.Loganathan	Electrical and Electronics Engineering	Energy Auditing	SRG Power Control System, Coimbatore	1 Day	0.30
Dr. Ramji Tiwari	Mr. S.Boobalan	Electrical and Electronics Engineering	Solar-Powered Agricultural Water Pumping System	Jai Bajrang Pump Company, Coimbatore	1 Year	0.75
Dr. J.Indirapriyadharshini,Dr. K. Ananthi	Ms. T.Malini	MCT,MCT,EEE	IIoT based Smart Helmet for Industrial workers	Eswara Agro and Engg Agencies, Coimbatore	24 Months	2.25
						Amount received (Rs.):4.35

Total amount (Lacs) received for the past 3 years: 16.80

Note*:

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

C9. Institution Seed Money or Internal Research Grant to its Faculty for Research Work

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr. K.Muthukumar Mr. V.V.Vineeth	Battery Management System for Electric Vehicles	1 Year	1.45	1.45	Developed and integrated a BMS into E-Kart for practical EV battery management.
Ms. R.Geethamani Ms. T.Malini	A Smart Agriculture Decision Support Using Weather Aware AI and Soil Sensor Fusion	1 Year	0.60	0.60	Developed an AI-enabled smart agriculture solution integrating weather and soil-sensor data for decision-making.
Dr. R. Sumathi Ms. C.Pavithra	Smart ECG Device	1 Year	0.60	0.60	Developed a Smart ECG Device for signal acquisition, monitoring, and biomedical applications, with patent publication.
			Amount received (Rs.): 2.65		

(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. T.Kokilavani	On Board Diagnosis for E-Vehicle Testing unit	1 Year	1.46	1.46	Developed and implemented an OBD system in E-Kart for enhanced EV diagnostics and testing.
Dr. G.Radhakrishnan	Smart EVs charging station using solar parking system	1 Year	0.45	0.45	Developed a solar-powered smart EV charging station integrating renewable energy for green mobility.
Dr. B.Karthikeyan	AI based Microgrid and Monitoring system for Smart Campus	1 Year	0.60	0.60	Developed an AI-based microgrid monitoring system for smart-campus energy management and student training.
			Amount received (Rs.): 2.51		

(CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr. Ramji Tiwari	Automated Prosthetic Leg	1 Year	1.00	1.00	Developed an automated prosthetic leg with intelligent control for assistive mobility.
Dr. Ramji Tiwari Dr. T.Kokilavani	A Smart Battery Management System for Electric Vehicle	3 Months	0.35	0.35	Developed and implemented a smart BMS for E-Kart, enabling efficient EV battery management.
Dr. S.Sivaranjani Dr. P.Vinoth Kumar Ms. R.Geethamani	AI tuned IoT based Microgrid for smart campus	3 Months	0.30	0.30	Developed an AI-tuned IoT microgrid for smart-campus energy management and published research.
Dr. P.Vinothkumar Dr. B.Karthikeyan	Band Dryer for Pyrotechs	12 Months	0.50	0.50	Developed an automated band dryer improving drying efficiency, safety, quality, and reliability.
			Amount received (Rs.): 2.15		

Total amount (Lacs) received for the past 3 years : 7.31

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	AC Machines Laboratory	3	Single Phase and Three Phase Induction Motors, Single Phase and Three Phase Transformers,	ODD Semeste	Mr. J.Ikramullah	Lab Instructor	M.E-PED

2	DC Machines Laboratory	3	Special Machine - BLDC, SRM, DC Shunt Motor, DC Series Motor, DC Compound Motor	ODD Semester	Ms. S.Hari Priya	Lab Assistant	B.E-EEE
3	Power Electronics Laboratory	3	SCR, DIAC, TRIAC, MOSFET, IGBT, Three-Phase Inverter and Rectifier, Resonant/ DC-DC Converters,	ODD Semester	Ms. A.Nandhini	Lab Assistant	B.E-EEE
4	Control Systems Laboratory	3	AC Servo Motor, DC Servo Motor, Position Control System, Stepper Motor Control, Power and Control	ODD Semester	Ms. M.Malini	Lab Assistant	B.E-ECE
5	Electronics Laboratory	3	Digital IC Trainer Kits, DSO	ODD Semester	Ms. A.Kaliswari, Mr. C.Jer	Lab Assistant,Lab Assistar	DICE, ITI
6	Microcontrollers and Embedded Systems Laboratory	3	RTOS Development Board, IoT Trainer Kit, Jetson Nano, Rasperry PI	ODD Semester	Ms. M.Vijaya Dharshini,M	Lab Assistant, Lab Assista	B.E-EEE,DECE
7	Electrical Simulation Laboratory	1	MATLAB - R2023b, NI LabVIEW, NI Multisim, ETAP, Open Source Softwares	ODD Semester	Ms. P.Shobana	Lab Assistant	B.Com-CA

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	AC Machines Laboratory	• AC machines and equipment are provided with appropriate fuses, circuit breakers, and overload protection. • Proper protective housing, guarding, and earthing are provided for rotating machines. • Rubber insulating mats are provided at designated operating areas. • Safety rules and operating instructions are prominently displayed. • First-aid kit and fire extinguisher are readily available. • Machine terminals, cables, insulation, and electrical connections are inspected periodically. • Starters, contactors, overload relays, and protection devices are checked regularly. • Rotating machines are operated only under faculty supervision. • Students are instructed to maintain a safe distance from rotating parts and avoid loose clothing during operation. • Equipment is switched off after laboratory sessions and the laboratory is maintained clean and free from obstructions.
2	DC Machines Laboratory	• DC machines and equipment are provided with appropriate fuses, circuit breakers, and overload protection. • Proper protective housing, guarding, and earthing are provided for rotating machines. • Rubber insulating mats are provided at designated operating areas. • Safety rules and operating instructions are prominently displayed. • First-aid kit and fire extinguisher are readily available. • Carbon brushes, brush holders, commutators, terminals, and connections are inspected periodically. • Armature and field winding connections are checked for proper insulation and safe operation. • DC starters and overload protection arrangements are checked regularly.
3	Power Electronics Laboratory	• Specific safety rules and operating instructions are prominently displayed. • First-aid kit and fire extinguisher are readily available. • Appropriate fuses, MCBs, circuit breakers, and overload protection are provided. • Proper earthing and electrical isolation are ensured for power electronic equipment and workstations. • Power semiconductor devices, converter circuits, DC power supplies, and experimental kits are inspected periodically. • Proper precautions are taken while working with high-voltage and high-current circuits. • Heat sinks, cooling arrangements, and protection circuits are checked periodically. • Cables, connectors, terminals, and experimental setups are inspected for insulation and safe operation. • Students operate power electronic experimental setups only under faculty supervision. • Equipment and power supplies are switched off after laboratory sessions, and workstations are maintained clean and organized.
4	Electronics Laboratory	• Specific safety rules and operating instructions are prominently displayed. • First-aid kit and fire extinguisher are readily available. • Appropriate fuses, MCBs, and electrical protection arrangements are provided. • Proper earthing is provided for workstations and electronic equipment. • Electronic components, ICs, trainer kits, breadboards, and circuit modules are inspected periodically. • Regulated power supplies, oscilloscopes, and function generators are checked for safe operation. • Cables, patch cords, connectors, and terminals are properly insulated and maintained. • Students are instructed to switch off power before modifying or reconnecting circuits. • Electronic components and accessories are stored systematically to prevent damage and hazards. • Equipment is switched off after laboratory sessions, and workstations are maintained clean and organized.

5	Control Systems Laboratory	• Specific safety rules and operating instructions are displayed. • First-aid kit and fire extinguisher are provided. • Proper earthing and electrical protection are ensured for laboratory equipment. • Experimental kits, cables, and connections are inspected periodically. • Periodic servicing and preventive maintenance of equipment are carried out. • Laboratory is maintained clean, organized, and free from hazards. • Equipment is switched off after laboratory sessions.
6	Microcontrollers and Embedded Systems Laboratory	• Specific safety rules and operating instructions are displayed. • First-aid kit and fire extinguisher are readily available. • Proper electrical connections and earthing are ensured for workstations and equipment. • Microcontroller kits, development boards, power supplies, and interfacing modules are inspected periodically. • Cables and connectors are properly insulated and secured. • Equipment is switched off after laboratory sessions. • Laboratory is maintained clean and organized.
7	Electrical Simulation Laboratory	• Computers and associated electrical equipment are properly maintained. • Proper electrical protection and earthing are ensured for computer workstations. • UPS systems and power backup arrangements are periodically inspected. • Internet connectivity, antivirus, and essential software are updated periodically. • Specific safety rules and instructions are displayed. • First-aid kit and fire extinguisher are provided. • Electrical cables are properly insulated, routed, and secured. • Laboratory is maintained clean, organized, and well ventilated.

D3. Project Laboratory/Research Laboratory

The Department of Electrical and Electronics Engineering has established dedicated facilities to support **student projects, research activities, innovation, entrepreneurship, industry-oriented learning, and emerging technology development**. These facilities provide students and faculty with opportunities for design, simulation, prototyping, testing, experimentation, and collaborative research.

Table No. 7.5.1: List of Project Laboratory/Research Laboratory/Centre of Excellence

S.No	Name of the Laboratory
1.	Project Design and Development Laboratory
2.	Research and Innovation Laboratory
3.	Centre of Excellence • Centre of Excellence for Drones - AICTE-AVPL • Centre for Embedded Systems - Capgemini Technologies • Centre of Excellence in Defence Technology - Athes • Centre for Energy Management and Industrial Automation - Kinpaun Technologies • Centre for Automation and Robotics - All India Council for Robotics and Automation (AICRA) • Centre of Excellence on EDA (Electronic Design Automation) Tools - MeitY and C-DAC

The Department has a well-equipped Project and Research Laboratory with adequate facilities for student project design, simulation, development, testing, prototyping, and fabrication. The laboratory provides a conducive environment for innovation, research and interdisciplinary projects, enabling students to translate their ideas into functional prototypes. Several student projects have been successfully developed and tested using the facilities available.

The major hardware and software resources available to support project and research activities include:

Hardware Facilities:

- Battery Management System
- ARM Processor LPC 2148
- LPC 2148 PIC
- LCD Display Interfacing boards
- Arduino, Raspberry Pi4 development platform
- Stepper Motor Control System
- Power Scope
- Mixed Storage Oscilloscope
- Digital Storage Oscilloscope
- PWM Inverter Module
- Different types of sensors & motors
- IC Tester
- Fluke Tix580 Thermography Camera

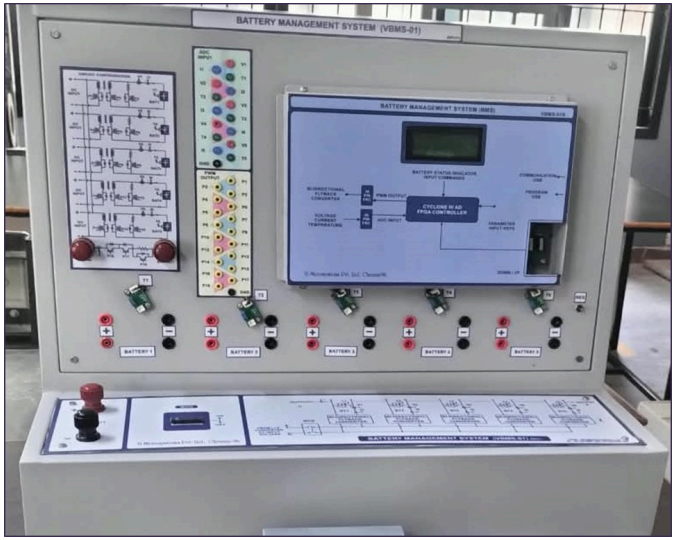


Fig.7.5.1. Battery Management System



Fig.7.5.2 Fluke Tix580 Thermography Camera

Software Facilities:

- NI LabVIEW, Multisim - Virtual Instrumentation, data acquisition, and system development
- MATLAB 2018A & MATLAB 2023B - Modelling, simulation, analysis, and algorithm development
- ETAP - Power system modelling, simulation, and analysis

MoUs signed and their outcomes

The Department has established Memoranda of Understanding (MoUs) and collaborations with **reputed industries and professional organizations** to strengthen industry-academia interaction and provide students with opportunities for industrial exposure, internships, project development, technical training, expert interaction, and research-oriented learning. These collaborations facilitate experiential learning and help students develop industry-relevant technical and professional competencies.

The major outcomes of these collaborations include **student internships, industrial training, real-time projects, workshops, technical programmes, industry expert sessions, collaborative research and skill-development activities**.

Tables 7.5.2, 7.5.3, and 7.5.4 present the MoUs signed with industry/professional organizations and their outcomes, projects completed using the available facilities, and Developed Projects Presented at Various National/International-Level Competitions, respectively.

Table No. 7.5.2: MoUs Signed with Industry/ Professional Organizations and their Outcomes

S.No	Name of the Company/ Organization	Major Outcomes
1.	Education and Research Network (ERNET India)	• Training in **computer networking, IoT, AI, cybersecurity and emerging ICT technologies.** Joint workshops, seminars, FDPs and technical training programmes. Opportunities for **collaborative R&D and student projects.** • Research internships and industry-oriented learning opportunities.
2.	Jet Aerospace Drone Manufacturing Hub, Palakad, Kerala	• Hands-on training in drone technology and UAV systems. • Support for drone-based projects, innovation and entrepreneurship. • Workshops, internships and industrial training opportunities.
3.	KPIT Technologies Ltd, Bengaluru	• Skill development in automotive software, embedded systems, electric mobility and autonomous vehicles. • Industry-oriented training, internships and project development. • Expert interaction in AI, cybersecurity and advanced mobility technologies.
4.	All India Council for Robotics and Automation (AICRA)	• Development of competencies in robotics, AI, automation and Industry 5.0. • Participation in competitions, exhibitions and innovation activities. • Faculty development through technical training and Train-the-Trainer programmes.
5.	Power Engineering & Automation Private Ltd, Bengaluru	• **Practical exposure to power engineering, industrial automation and electrical control systems.** • **Internships, industrial visits and project opportunities.** • **Industry interaction on power-system applications.**
6.	Capgemini Technologies Services India Limited, Bengaluru	• Industry-oriented training in **software development, cloud, AI/ML, data analytics and digital technologies.** • Certification and skill-development programmes. Guest lectures, workshops and hackathons.
7.	Kinpaun Technologies, Coimbatore	• **Real-time industry projects** and student internships. • In-plant training and skill-development programmes. • Consultancy and project-based learning opportunities.

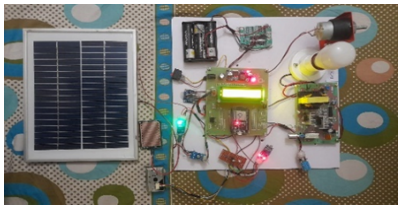
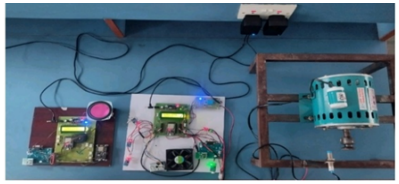
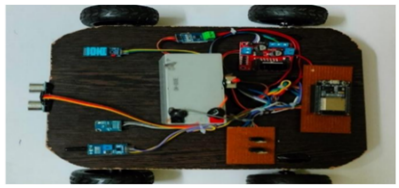
8.	Megatech Scientific Instruments, Coimbatore	• Hands-on training in **electrical/electronic measurement and scientific instrumentation.** • Exposure to testing, calibration and measurement equipment. • Expert lectures and practical demonstrations.
9.	Skarduino Labs, Chennai and Tirunelveli	• Practical training in **Arduino, embedded systems, IoT, sensors and automation**. • Hands-on workshops on microcontrollers and IoT-based applications.
10.	Power Projects, Chennai	• Industrial exposure to **power-system analysis, electrical design and grid studies.** • Training using ETAP and related power-system engineering tools. • Student internships and industry-oriented projects. • Expert interaction on BESS, renewable-energy integration and grid compliance.
11.	Pentagon Switchgear Private Limited, Coimbatore	• Industrial exposure to HT switchgear manufacturing, testing and quality control. • Exposure to VCB, CT, PT, panels and protection equipment. • Industrial visits and practical demonstrations.
12.	Bhairav Industriees, Coimbatore	• Industrial exposure to **electrical/electronic manufacturing and industrial practices.** • Technical training and hands-on learning. • Industrial visits, internships and project opportunities.
13.	Evnexus Private Limited, Chennai	• Training and exposure in **electric vehicles and EV technologies.** • Hands-on learning related to EV components, systems and maintenance. • Expert interaction on EV technology and emerging opportunities.
14.	Nestlives Private Limited, Chennai	• Exposure to **green technology, renewable energy and sustainable energy solutions.** • Training in solar-energy and energy-management applications. • Industry interaction on sustainable electrical systems.
15.	Prolific Systems and Technologies Pvt Ltd, Coimbatore	• Training in **industrial automation, PLC, SCADA, instrumentation and control technologies**. • Hands-on exposure to industrial automation platforms. • Workshops and certification-oriented skill development.

16.	Nasscom ER&D, Bengaluru	• Training in **latest embedded technologies for placements**. • Hands-on exposure on Next-Gen Embedded Technologies, Workshops and certification-oriented skill development.
17.	Scientific and Industrial Testing and Research Centre (SiTarc), Coimbatore,	**For Students** • Industry internships and in-plant training at SiTarc laboratories • Exposure to real-time industrial projects and product testing • Hands-on training in advanced testing instruments and calibration • Participation in Centres of Excellence covering Pumps, Motors and Smart Controllers • Skill-development programmes focused on enhancing employability **For Faculty & Institution** • Collaborative research, consultancy and product development • Access to advanced testing and validation facilities • Joint workshops, seminars, FDPs and industry-expert guest lectures • Support for innovation, start-ups and incubation initiatives • Stronger industry-institute interaction for accreditation and rankings
18.	L.G. Balakrishnan & Bros Limited (LGB), Coimbatore	• Internships, Industrial Projects, Skill Development Training, Industrial Visits and Placements.



Fig.7.5.3: MoU (Memorandum of Understanding) is signed with ERNET India

Table No. 7.5.3: Indicative list of projects completed using the above facilities

S.No	Domain	Project Title	Prototype
1.	Integrated Electronics Systems	Smart myoelectric prosthesis for upper limb amputees	
2.	Renewable Energy Systems	Dynamic solar PV array reconfiguration using deep learning techniques for maximum power extraction	
3.	Power Engineering	IoT based solar power monitoring and analytics system	
4.	Integrated Electronics Systems	Smart delivery box - a secure last mile delivery solution	
5.	Applied Electronics	Smart motor diagnostic system and AI based lifetime forecasting	
6.	E-Mobility	Intelligent Torque Control for EVs	

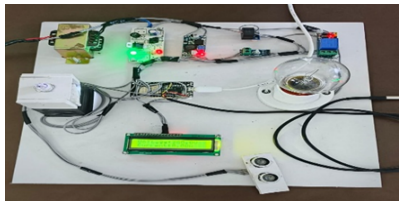
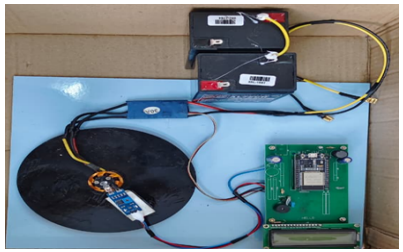
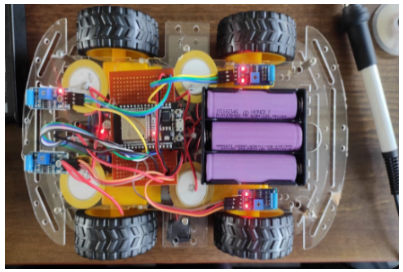
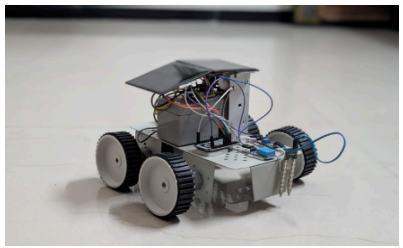
7.	Converter and Drives	Detecting and analysis of transformer health monitoring system using IOT	
8.	Power Electronics	Intelligent BLDC Motor Speed Control System with Real Time RPM Monitoring and Adaptive Feedback for Industrial Automation and Sustainable Energy Applications	
9.	Renewable Energy Systems	Piezoelectric Energy Harvesting System for Structural Signal Extraction in Electric Vehicles	
10.	Renewable Energy Systems	Design and Development of a Solar Powered Cotton Picking Rover	
11	Integrated Electronics Systems	Solar Powered Soil Analysis Intelligent Rover	

Table 7.5.4 Developed Projects Presented at Various National/International-Level Competitions

S.No	Name of the Student	Name of the Event	State/National/International/Level	Date of Event	Name of the Award (if any)
1	SHRI RAM A SAGITHYAN G S VIVEHANANTH R SRITHAR P	Tamil Nadu Startup Thiruvizha Organized by Forge Innovation and Ventures, Coimbatore	State Level	28.09.2024	Selected as the Winning Idea of Theerkathon
2	SHARMILA L SRIRAM ARASU T	IEEE Region 10 (Asia Pacific) 2024 R10 AdHoc Committee on Outreach and Retention (ACOR) - 36-Hour Hackathon - Vellore Institute of Technology, Vellore	International Level	03.10.2024 to 04.10.2024	Second Runner-up with a Cash Prize of Rs. 10,000/-
3	AAKASH S DHARANEESH A KARTHIKEYAN S GOWTAM KRISHNAN P	Impairathon 2024 Karpagam Academy of Higher Education, Coimbatore	National Level	08.10.2024 to 09.10.2024	Runner-up
4	AAKASH S DHARANEESH A KARTHIKEYAN S GOWTAM KRISHNAN P	Entrepreneurship Development and Innovation Institute (EDII-TN), Government of Tamil Nadu, Chennai	State Level	11.11.2024	Best Academic Hackathon Winner Award - EDII

5	TEAM GANDIVA RACING	12th National Level GoKart Design Challenge (GKDC) 2025, organized by ISNEE Motorsports, Bijnor, Uttar Pradesh, hosted by Sri Krishna College of Engineering and Technology, Coimbatore and the final races were held at the Kari Motor Speedway Racetrack, Coimbatore, Tamil Nadu.	National Level	19.02.2025 to 23.02.2025	• Third Place Winner • Best Cost Manufacturing Award
6	TEAM ARINNA	12th National Level GoKart Design Challenge (GKDC) 2025, organized by ISNEE Motorsports, Bijnor, Uttar Pradesh, hosted by Sri Krishna College of Engineering and Technology, Coimbatore and the final races were held at the Kari Motor Speedway Racetrack, Coimbatore, Tamil Nadu.	National Level	19.02.2025 to 23.02.2025	Best Girls Team Award
7	ADITHYA S M AABIDEEN A AAKASH SANKAR B DEVANDTH V R	Thiran, Confluence and Talent 2025 - IoT Master Mind at Sri Eshwar College of Engineering, Coimbatore	National Level	20.02.2025 to 22.02.2025	1st Prize

8	DINESH KARTHICK B GOKULA KRISHNAN N P ASHOK J	Thiran, Confluence and Talent 2025 - Paper Presentation at Sri Eshwar College of Engineering, Coimbatore	National Level	20.02.2025 to 22.02.2025	2nd Prize
9	KUSHAADA AJATH T V MADHAVAN P HAIGRIVAAS C S LOKESHWARAN U	Thiran, Confluence and Talent 2025 - Circuit Clash at Sri Eshwar College of Engineering, Coimbatore	National Level	20.02.2025 to 22.02.2025	2nd Prize
10	TEAM GANDIVA RACING	National Level Kart Design and Racing Championship 2024 Organized by Academy of Indigenous Motor Sports at Hindusthan College of Engineering and Technology, and the final races were held at the Kari Motor Speedway Racetrack, Coimbatore, Tamil Nadu.	National Level	13.03.2025 to 17.03.2025	• Overall Winner with Cash Prize Rs.25,000/- • Endurance Winner • Best EV Design Award • Skid Pad Winner • Auto-Cross Winner
11	TEAM HOPLITES	National Level Kart Design and Racing Championship 2024 Organized by Academy of Indigenous Motor Sports at Hindusthan College of Engineering and Technology, and the final races were held at the Kari Motor Speedway Racetrack, Coimbatore, Tamil Nadu.	National Level	13.03.2025 to 17.03.2025	• Second Runner-up (HEV Category) with cash prize of Rs.10,000/- • Lightest Vehicle Award (HEV) • Utility Winner (HEV) • Rush in Dusk Award • Motor Man Award

12	TEAM ARINNA	National Level Kart Design and Racing Championship 2024 Organized by Academy of Indigenous Motor Sports at Hindusthan College of Engineering and Technology, and the final races were held at the Kari Motor Speedway Racetrack, Coimbatore, Tamil Nadu.	National Level	13.03.2025 to 17.03.2025	• Best Cost Award • Best Motor Man Award
13	SRI HARINI R M	Roboto AI Technologies SHRISHTI 2024), PSG College of Technology, Coimbatore	National Level	05.10.2024 to 06.10.2024	Participated
14	MRIDULA K PRANAVAA VARSHINI K	National Level Automation and Robotics Challenge - ARC25, SRM Institute of Science and Technology, Chennai	National Level	27.02.2025 to 28.02.2025	Participated
15	SANTHIPKUMAR S VIVIN SR RANJITHKUMAR V	National Level Electric Four-Wheeler Design Competition (EFWDC 2023) - Organized by SAEINDIA Southern Section SASTRA Deemed University, Thanjavur, Tamil Nadu	National Level	12.08.2023 to 13.08.2023	First Prize with Cash Prize of Rs.75,000/-

16	PADMA PRIYA S R SANTHIP KUMAR S SASIPRIYA S SRIVISWESWARAM S HARICHARAN R SARAN R	Smart India Hackathon, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana	National Level	19.12.2023 to 23.12.2023	Winner with a Cash Prize of Rs.1,00,000/-
17	NAVEEN.M NAVEENKUMAR T ARAVIND MIRASN	Smart India Hackathon, Lakshmi Narain College of Technology, Bhopal, Madhya Pradesh	National Level	19.12.2023 to 23.12.2023	Winner with a Cash Prize of Rs.1,00,000/-
18	TEAM GANDIVA RACING	National Level Event - 11th Go Kart Design Challenge (GKDC) 2024 held at Kari Motor Speedway Racetrack, Coimbatore	National Level	15.02.2024 to 19.02.2024	• Best Innovation Award • Best Driver Award • Second Place in Skip Pad • Second Place in Auto Cross • Second Place in Disassembly
19	TEAM GANDIVA RACING	AIMS - Kart Design and Racing Championship 2024 at Hindusthan College of Engineering and Technology, Coimbatore and the final event at Kari Motors Speedway Racetrack, Coimbatore	National Level	26.02.2024 to 29.02.2024	• Winner in Go-Green • Winner in First Vehicle Inspection and Acceptance Protocol under 5 KW to 6 KW kart category • Winner in Skip Pad and with a total cash award of Rs.10,000/-

20	TEAM ARINNA	AIMS - Kart Design and Racing Championship 2024 at Hindusthan College of Engineering and Technology, Coimbatore and the final event at Kari Motors Speedway Racetrack, Coimbatore	National Level	26.02.2024 to 29.02.2024	• Best Virtual Presentation • Best Captainship • Best Driver • Best Faculty Mentor • Best Team Spirit • Winner in First Vehicle Inspection and Acceptance Protocol under 3 KW to 4 KW category • Best Time Keeper
21	THANGAVEL A RAGHUL HARINI SRUTHI KP	Project Competition 2024, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Technology, Chennai	International Level	24.02.2024	Third Prize
22	S.K. MADHANA BALA S. MADHUBALAN S. RAMSHI A. KAVI RAAM PRANAU	Kovai Innovate Challenge, Coimbatore Corporation in association with SUEZ Group, Coimbatore	State Level	04.03.2024	Winner with a Cash Award Rs.25,000/-
23	TEAM GANDIVA RACING	Electric Kart Vehicle Championship (EKVC) 2024 and Solar Electric Vehicle Championship (SEVC) 2024 held at Manipal Institute of Technology, Manipal, Karnataka	National Level	27.03.2024 to 31.03.2024	• Overall Winner in EKVC 2024 with the cash prize of Rs. 25,000/- • Best Design Award with Rs.3,000/- • Technical Presentation Award with Rs.3,000/-

24	TEAM HOPLITES	Electric Kart Vehicle Championship (EKVC) 2024 and Solar Electric Vehicle Championship (SEVC) 2024 held at Manipal Institute of Technology, Manipal, Karnataka	National Level	27.03.2024 to 31.03.2024	Virtual Round Winner with Rs.5,000/-
25	BARANIKUMARAN K HEMADHARSHINI S KAVITHRA R KIRUTHIK M	Naan Mudhalvan - Niral Thiruvizha Hackathon 2024, Government College of Technology, Coimbatore	State Level	28.09.2024	Cash Award Rs.10,000/-
26	TEAM GANDIVA SOLAR	Bharat Solar Vehicle Championship (BSVC) 2024 Fraternity of Mechanical and Automotive Engineers (FMAE) Kumaraguru College of Technology, Kari Motor Speedway, Chettipalayam, Coimbatore, Tamil Nadu	National Level	18.10.2024 to 24.10.2024	Runner-up Position in Endurance
27	K. VIDHUSHINI S. NIKITHA A. SUTHARSANA C. SUDHERSON R. SARAN	Arduino Hackathon, Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala	National Level	23.09.2023 to 25.09.2023	Participated

28	KARTHIKEYAN S	Smart India Hackathon, Galgotias University, Greater Noida, Uttar Pradesh	National Level	19.12.2023 to 23.12.2023	Participated in the SIH Finale
	DHARANEESH A				
	GOWTHAM KRISHNAN P				
	ANU APARNA S				
	DEEPIKA M				
29	ATHMIKA N				
	VIVIN S R				
	SHARAN D				
	NITISH KUMAR K				
	SRI TARUN DESIGAN G				
30	SHAMEEM FATHIMA M				
	SUNDAR R				
	AAKASH S				
	AAQIL HUSSAIN Z				
	AADHARSHA S				
31	RATHIKA P	Rajasthan Police Hackathon 1.0, Rajasthan Police, Head quarter, Cyber Crime, Jaipur	International Level	17.01.2024 to 18.01.2024	Participated

Laboratory-Developed Products and Student Participation in National & International Competitions:

Products developed using the department’s laboratory facilities have enabled our students to participate and excel in various national and international-level project competitions.



Hat-Trick Glory: Team Gandiva Racing Champions for three consecutive years - 2024, 2025 and 2026. A remarkable legacy of innovation, eamwork, and racing excellence



SKCET EEE Girls Kart Team - Team Arinna has been honored with the prestigious Jury Choice Award by a distinguished panel of 40 jury members. Their outstanding innovation, technical expertise and engineering excellence secured them Fifth Place among 61 competing teams for 13th GKDC 2026.





GANDIVA RACING Team has emerged as the Overall Winner of EKVC 2025. With this remarkable achievement, they have secured the Championship for the Second consecutive time and earned a cash prize of ₹25,000/-



Team HOPLITES has showcased an exceptional performance at SEVC 2025, securing multiple prestigious accolades in the Hybrid Electric Vehicle (HEV) category



‘Project Expo 2K25 at St. Xaviers Catholic College of Engineering, Nagercoil on March 14, 2025. The team presented their project titled "Development of a Cost-Effective Myoelectric Prosthesis for Upper Limb Amputees" and secured 2nd Prize, with a cash award.



Theerkathan - Idea Pitching Contest, held during the TN Startup Thiruvizha on the 28th and 29th of September 2024 at Madurai. This prestigious event was organized by StartupTN in collaboration with Forge, Coimbatore.



Two kart teams of students from the Department of EEE - Gandiva and Hoplites actively participated in two National Level Events - Electric Kart Vehicle Championship (EKVC) 2024 and Solar Electric Vehicle Championship (SEVC) 2024 held at Manipal Institute of Technology, Manipal, Karnataka from 27.03.2024 to 31.03.2024. The teams have won various awards in the various categories.



Two teams of students from the Department of EEE have excelled in the Grand Finale of VISAI 2024 - 14th International Project Competition and Exhibition, organized by Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai in collaboration with UNESCO - Indian National Commission for Cooperation (INCCU) on 24.02.2024. Out of 74 competing teams, our teams secured First and Third Places under the problem statements - Automated Digital Safety Kit for Forklift & Affordable in Clean Energy. The students are honored with Merit Certificates with a total cash award of Rs.12, 000/-



A student team from the Department of Electrical and Electronics Engineering, emerged victorious at the Theerkathan - Idea Pitching Contest, held during the TN Startup Thiruvizha on the 28th and 29th of September 2024 at Madurai. This prestigious event was organized by StartupTN in collaboration with Forge, Coimbatore.





10 Teams from the Department of EEE participated in the IEEE Region 10 Asia Pacific Sustainable Solutions for Humanity Hackathon (SSH 2024) conducted online. Out of these, two teams have advanced to the final round. The final offline event took place at KIET Institutions, Ghaziabad, on 20th and 21st October, organized by the IEEE R10 Asia Pacific Committee. Our students teams competed alongside World-class Industries and Institutions in this prestigious international competition.



Gandiva Solar Kart Team from the Department of Electrical and Electronics Engineering participated in the Bharat Solar Vehicle Challenge (BSVC) - National Level Racing Championship 2024, organized by the Fraternity of Mechanical and Automotive Engineers (FMAE). The static event was held at Kumaraguru College of Technology, Coimbatore and the final event at Kari Motors Speedway Racetrack, Coimbatore from 18th to 24th October 2024.



Two teams from our departments have showcased unparalleled innovation and problem-solving prowess at Smart India Hackathon 2023 hardware edition.

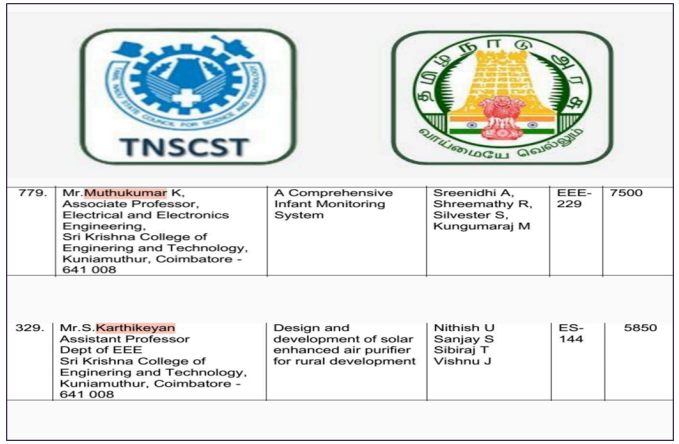
Three teams have won first prizes in SIH software edition earlier in the problem statements issued by

1. AICTE

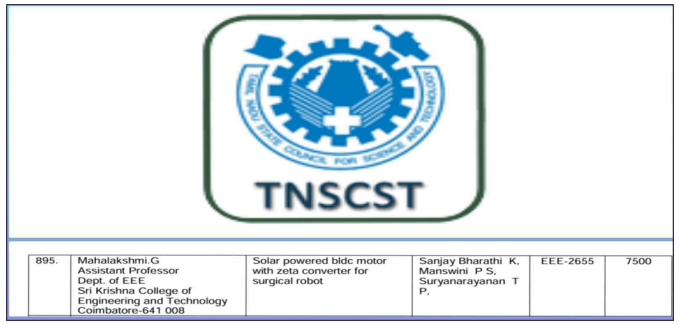
2. Ministry of Housing and Urban Affairs, Govt of India

3. Govt of Kerala

Outshining competitors, two EEE teams secured the first place, each earning a substantial prize of ₹1 Lakh.



779.	Mr.Muthukumar K, Associate Professor, Electrical and Electronics Engineering, Sri Krishna College of Enginering and Technology, Kuniamuthur, Coimbatore - 641 008	A Comprehensive Infant Monitoring System	Sreenidhi A, Shreemathy R, Silvester S, Kungumaraj M	EEE-229	7500
329.	Mr.S.Karthikeyan Assistant Professor Dept of EEE Sri Krishna College of Enginering and Technology, Kuniamuthur, Coimbatore - 641 008	Design and development of solar enhanced air purifier for rural development	Nithish U Sanjay S Sibiraj T Vishnu J	ES-144	5850



895.	Mahalakshmi.G Assistant Professor Dept. of EEE Sri Krishna College of Engineering and Technology Coimbatore-641 008	Solar powered bldc motor with zeta converter for surgical robot	Sanjay Bharathi K, Manswini P S, Suryanarayanan T P,	EEE-2655	7500

The student teams from the Department of Electrical and Electronics Engineering has been awarded a grant under the Tamil Nadu State Council for Science and Technology (TNSCST) - Student Project Scheme (SPS) past Three years.



The innovative ideas and efforts taken by the students for developing the working models of the project during project expo ‘Engineers day’.

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)	1651	83	73	72	88

2024-25(CAYm1)	1845	92	74	84	83
2025-26(CAY)	3612	181	121	222	78

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	400000000	396937329	290000000	229936923	122051500	132433690	18862500	15520095
Library	12000000	12410604	2500000	92841	9540000	8956320	1200000	1139982
Laboratory equipment	33000000	32636797	20000000	11964014	16570000	5445518	10000000	11805745
Teaching and non-teaching staff salary	380000000	376756807	231750000	225792575	216520000	216419721	220300000	218340926
Outreach Programs	2000000	2065527	1855000	1987948	200000	1828871	47500000	12682720
R&D	14000000	13784366	7445000	7062415	4000000	3612855	5850000	4473819
Training, Placement and Industry linkage	10000000	10689402	9360000	9780383	22500000	20496882	22000000	21216844
SDGs	75000000	75967378	60785000	58087747	55000000	50103073	71025395	48119945
Entrepreneurship	600000	525689	588000	568187	150000	331229	150000	884144
Others, specify	260000000	263139084	225714000	291843288	234124825	235936395	153874500	207804812
Total	**1186600000**	**1184912983**	**849997000**	**837116321**	**680656325**	**675564554**	**550762395**	**541989032**

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	929857	827000.5	1285660	1114660	825840	439972.6	1286430	1176580
Software	400000	305666	106250	119666	165250	755200	0	0
SDGs	560196.8	559988.6	523321.5	500081.8	508162.2	462953.4	752584	709880
Support for faculty development	700000	669015	757500	724018	715500	616000	720000	694000

R & D	597500	582500	360000	348300	985000	961000	456000	475000
Industrial Training, Industry expert, Internship	300000	254700	55000	47400	40000	35365	30000	22570
Miscellaneous Expenses*	215000	215000	65000	56339	200500	143610	255000	229430
Total	**3702553.8**	**3413870.1**	**3152731.5**	**2910464.8**	**3440252.2**	**3414101.0**	**3500014**	**3307460**