NATIONAL BOARD OF ACCREDITATION

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

Program Name : Electrical and Electronics Engineering	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 1
Application No: 10693	**Date of Submission**: 10-05-2025

PART A- Profile of the Institute

A1.Name of the Institute: BANNARI AMMAN INSTITUTE OF TECHNOLOGY	
Year of Establishment : 1996/1996	Location of the Institute: SATHYAMANGALAM
A2. Institute Address:SATHY -BHAVANI ROAD [STATE HIGHWAY] ALATHUKOMBAI -POST SATHYAMANGALAM [TALUK]	
City:ERODE	State:Tamil Nadu
Pin Code:638401	Website:www.bitsathy.ac.in
Email:BITSATHY@BANNARI.COM	Phone No(with STD Code):04295-226000
A3. Name and Address of the Affiliating University (if any):	
Name of the University : ANNA UNIVERSITY OF TECHNOLOGY COIMBATORE	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: **21**
- No. of PG programs: **6**

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Agricultural Engineering	2015	--	Agricultural Engineering
2	Engineering & Technology	UG	Artificial Intelligence and Data Science	2020	--	Artificial Intelligence and Data Science
3	Engineering & Technology	UG	Artificial Intelligence and Machine Learning	2021	--	Artificial Intelligence and Machine Learning
4	Engineering & Technology	UG	Automobile Engineering	2014	2022	Automobile Engineering
5	Engineering & Technology	UG	Biomedical Engineering	2019	2024	Biomedical Engineering
6	Engineering & Technology	UG	Biotechnology	2003	--	Biotechnology
7	Engineering & Technology	PG	Biotechnology	2008	2024	Biotechnology
8	Engineering & Technology	UG	Civil Engineering	2001	2024	Civil Engineering
9	Engineering & Technology	PG	Communication Systems	2005	2024	Electronics and Communication Engineering
10	Engineering & Technology	UG	Computer Science and Business System	2019	2025	Computer Science and Business System

11	Engineering & Technology	UG	Computer Science and Design	2022	2024	Computer Science and Design
12	Engineering & Technology	PG	Computer Science and Engineering	2005	--	Computer Science and Engineering
13	Engineering & Technology	UG	Computer Science and Engineering	1996	--	Computer Science and Engineering
14	Engineering & Technology	UG	Computer Technology	2019	2024	Computer Technology
15	Engineering & Technology	UG	Electrical and Electronics Engineering	1996	--	Electrical and Electronics Engineering
16	Engineering & Technology	UG	Electronics & Communication Engineering	1998	--	Electronics and Communication Engineering
17	Engineering & Technology	UG	Electronics & Instrumentation Engineering	2007	--	Electronics and Instrumentation Engineering
18	Engineering & Technology	UG	Fashion Technology	2004	2024	Fashion Technology
19	Engineering & Technology	UG	Food Technology	2016	2024	Food Technology
20	Engineering & Technology	PG	Industrial Safety Engineering	2014	--	Mechanical Engineering
21	Engineering & Technology	UG	Information Science & Engineering	2019	2024	Information Science and Engineering
22	Engineering & Technology	UG	Information Technology	1999	--	Information Technology
23	Engineering & Technology	UG	Mechanical Engineering	1996	--	Mechanical Engineering
24	Engineering & Technology	UG	Mechatronics Engineering	2012	--	Mechatronics Engineering
25	Engineering & Technology	PG	Structural Engineering	2007	2024	Civil Engineering
26	Engineering & Technology	UG	Textile Technology	1996	2023	Textile Technology
27	Management	PG	Master of Business Administration	2008	--	Management

A7. Programs to be considered for Accreditation vide this Application:

Table No. A7.1: List of programs to be considered for accreditation.

Name of the Department	**Having Allied Departments**	**Name of the Program**	**Program Level**
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
1	Electrical and Electronics Engineering	UG	1996 / --	60	Yes	2024	120	2024	1996	Granted accreditation for 3 years for the period (specify period)	2022	2025	4

Sanctioned Intake for Last Five Years for the Power Electronics & Drives	
Academic Year	**Sanctioned Intake**
2024-25	120
2023-24	60
2022-23	60
2021-22	120
2020-21	180
2019-20	180

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.MAHESWARI K T
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)	120	60	60	120	180	180	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	115	60	63	106	134	152	132
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	6	5	19	22	23	26
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.	115	66	68	125	156	175	158

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)	120	115	0	95.83
2023-24 (CAYm1)	60	60	0	100.00
2022-23 (CAYm2)	60	63	0	105.00

Average [(ER1 + ER2 + ER3) / 3] = 100.28≡ 100

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).	202.00	203.00	206.00
B=No. of students who graduated from the program in the stipulated course duration	122.00	140.00	128.00
Success Rate (SR)= (B/A) * 100	60.40	68.97	62.14

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 63.84

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)	7.68	7.68	8.01
Y=Total no. of successful students	47.00	45.00	81.00
Z=Total no. of students appeared in the examination	60.00	63.00	106.00
API [X*(Y/Z)]	6.02	5.49	6.12

Average API[(AP1+AP2+AP3)/3] : 5.88

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

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

Academic Performance	CAYm1 (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)	7.70	8.12	8.69
Y=Total no. of successful students	48.00	62.00	128.00
Z=Total no. of students appeared in the examination	50.00	100.00	153.00
API [X * (Y/Z)]	7.39	5.03	7.27

Average API [(AP1 + AP2 + AP3)/3] : 6.56

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)	8.14	8.39	8.67
Y=Total no. of successful students	56.00	124.00	150.00
Z=Total no. of students appeared in the examination	62.00	128.00	153.00
API [X*(Y/Z)]:	7.35	8.13	8.50

Average API [(AP1 + AP2 + AP3)/3] : 7.99

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	202.00	203.00	206.00
X=No. of students placed	120.00	152.00	125.00
Y=No. of students admitted to higher studies	5.00	3.00	2.00
Z= No. of students taking up entrepreneurship	3.00	1.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	63.37	76.85	61.65

Average Placement Index = (P_1 + P_2 + P_3)/3: 67.29 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.MAHESWARI K T	XXXXXXX72G	ME/M. Tech and PhD	Anna University	Power Electronics And Drives	19/05/2010	14.11	Assistant Professor	Associate Professor	01/03/2022	Regular	Yes		Yes
2	Dr.BHARANI KUMAR R	XXXXXXX53C	ME/M. Tech and PhD	Anna University	Power Electronics And Drives	03/05/1999	26	Assistant Professor	Professor	02/07/2012	Regular	Yes		No
3	Dr.SIVARAMAN P	XXXXXXX49D	ME/M. Tech and PhD	Anna University	High Voltage Engineering	13/07/2005	19.10	Assistant Professor	Professor	14/05/2020	Regular	Yes		No
4	Dr.SRINIVASAN M	XXXXXXX38N	ME/M. Tech and PhD	Anna University	Power Electronics And Drives	20/06/2005	19.10	Assistant Professor	Associate Professor	02/07/2018	Regular	Yes		No

5	Dr.RAJALASHMI K	XXXXXXX99H	ME/M. Tech and PhD	Anna University	Applied Electronics	29/06/2005	19.10	Assistant Professor	Associate Professor	02/07/2018	Regular	Yes		No
6	Dr.VEERAKUMAR S	XXXXXXX71F	ME/M. Tech and PhD	Anna University	Power Electronics And Drives	14/05/2007	18	Assistant Professor	Associate Professor	02/07/2018	Regular	Yes		No
7	Dr.SHANKAR N	XXXXXXX52F	ME/M. Tech and PhD	Anna University	Power Electronics And Drives	23/06/2008	16.10	Assistant Professor	Associate Professor	01/03/2022	Regular	No	30/04/2025	No
8	Dr.SENTHIL KUMAR J	XXXXXXX99R	ME/M. Tech and PhD	Anna University	Power Systems Engineering	27/12/2018	6.4	Assistant Professor	Associate Professor	07/12/2020	Regular	Yes		No
9	Dr.DHEEPANCHAKKRAVARTHY A	XXXXXXX50F	ME/M. Tech and PhD	National Institute Of Technology, Trichy	Power Electronics And Drives	27/12/2018	5.4	Assistant Professor	Associate Professor	07/12/2020	Regular	No	24/05/2024	No
10	Dr.MANOJKUMAR P	XXXXXXX99D	ME/M. Tech and PhD	Anna University	Embedded Systems	10/06/2020	4.10	Assistant Professor	Associate Professor	07/12/2020	Regular	Yes		No
11	Dr.NANDHAKUMAR A	XXXXXXX07H	ME/M. Tech and PhD	Anna University	Power Electronics and Drives	04/06/2010	14.11	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Mr.MANIVANNAN S	XXXXXXX83A	M.E/M.Tech	Anna University	PWM Control Techniques	16/06/2010	13.2	Assistant Professor	Assistant Professor		Regular	No	31/08/2023	No
13	Ms.SRITHA P	XXXXXXX96N	M.E/M.Tech	Anna University	VLSI DESIGN	13/05/2011	14	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Mr.ASHOKKUMAR R	XXXXXXX20B	M.E/M.Tech	Anna University	Power Electronics and Drives	16/05/2011	13	Assistant Professor	Assistant Professor		Regular	No	25/05/2024	No
15	Ms.MOHANAPRIYA V	XXXXXXX10H	M.E/M.Tech	Anna University	Power Electronics and Drives	27/05/2011	13.11	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Mr.SUNDAR S	XXXXXXX01R	M.E/M.Tech	Anna University	Power Electronics and Drives	15/05/2013	11.11	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Dr.ALEX STANLEY RAJA T	XXXXXXX22R	ME/M. Tech and PhD	Anna University	Power Electronics and Drives	01/06/2015	9.11	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Mr.ARUN CHENDHURAN R	XXXXXXX53B	M.E/M.Tech	Anna University	Power Electronics and Drives	04/07/2016	8.10	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Dr.SATHISHKUMAR S	XXXXXXX49Q	ME/M. Tech and PhD	Anna University	Applied Electronics	22/02/2017	8.2	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Mr.KALIMUTHU M	XXXXXXX58K	M.E/M.Tech	VIT University	Embedded Systems	27/07/2017	6.1	Assistant Professor	Assistant Professor		Regular	No	31/08/2023	No
21	Mr.VAIDEESWARAN V	XXXXXXX44F	M.E/M.Tech	Anna University	Power Electronics and Drives	24/05/2018	4.11	Assistant Professor	Assistant Professor		Regular	No	02/05/2023	No

22	Mr.BALAVIGNESH S	XXXXXXX17F	M.E/M.Tech	Anna University	Power Systems Engineering	18/06/2018	5.6	Assistant Professor	Assistant Professor		Regular	No	06/01/2024	No
23	Ms.NITHYA G	XXXXXXX94K	M.E/M.Tech	Anna University	Power Electronics and Drives	05/09/2018	6.8	Assistant Professor	Assistant Professor		Regular	Yes		No
24	Ms.MADHUMITHA J	XXXXXXX30E	M.E/M.Tech	Anna University	Embedded Systems	01/03/2023	2.2	Assistant Professor	Assistant Professor		Regular	Yes		No
25	Mr.RISHIKESH N	XXXXXXX44P	MS	University of Northumbria	Electrical Power Engineeering With Advanced Practice	03/01/2019	6.4	Assistant Professor	Assistant Professor		Regular	Yes		No
26	Ms.ANDRIL ALAGUSABAI	XXXXXXX90K	M.E/M.Tech	Anna University	Embedded System Technologies	15/05/2019	5.11	Assistant Professor	Assistant Professor		Regular	No	30/04/2025	No
27	Ms.GOPIKA N P	XXXXXXX19H	M.E/M.Tech	Amrita Vishwa Vidyapeetham	Power And Energy Engineering	17/06/2019	5.10	Assistant Professor	Assistant Professor		Regular	Yes		No
28	Dr.CHINNADURRAI CL	XXXXXXX70B	ME/M. Tech and PhD	Anna University	Power Systems Engineering	18/03/2021	4.1	Assistant Professor	Assistant Professor		Regular	Yes		No
29	Dr.GOLDVIN SUGIRTHA DHAS B	XXXXXXX43D	ME/M. Tech and PhD	Anna University	Power Electronics and Drives	15/04/2021	4	Assistant Professor	Assistant Professor		Regular	Yes		No
30	Ms.MERCY P	XXXXXXX22Q	M.E/M.Tech	Anna University	Energy Conservation And Management	07/06/2021	3.5	Assistant Professor	Assistant Professor		Regular	No	30/11/2024	No
31	Dr.GOWRI SHANKAR M	XXXXXXX29P	ME/M. Tech and PhD	Anna University	VLSI DESIGN	13/07/2023	0.10	Assistant Professor	Assistant Professor		Regular	No	22/05/2024	No

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

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):
UG1=1st UG program
UGn=nth UG program
B= No. of Students in UG 2nd year (ST)
C= No. of Students in UG 3rd year (ST)
D= No. of Students in UG 4th year (ST)
No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):
PG1=1st PG program.
PGm=mth PG program
A= No. of Students in PG 1st year
B= No. of Students in PG 2nd year
Student Faculty Ratio **(SFR)** = S/F
S= No. of students of all programs in the Department including all students of allied departments/clusters.

No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)
Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.
F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department1 No. of PG Programs in the Department1

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

Description	**CAY(2024-25)**	**CAYm1 (2023-24)**	**CAYm2 (2022-23)**
UG1.B	66	65	132
UG1.C	65	132	198
UG1.D	132	198	198
UG1: Electrical and Electronics Engineering	**263**	**395**	**528**
PG1.A	0	0	0
PG1.B	0	0	6
PG1: Power Electronics & Drives	**0**	**0**	**6**
DS=Total no. of students in all UG and PG programs in the Department	263	395	534
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=** 263	**S2=** 395	**S3=** 534
DF=Total no. of faculty members in the Department	23	27	29
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=** 23	**F2=** 27	**F3=** 29
FF=The faculty members in F who have a 100% teaching load in the first-year courses	6	3	0
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 15.47**	**SFR2= 16.46**	**SFR3= 18.41**
Average SFR for 3 years	**SFR= 16.78**		

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)	14	9	13.00	33.85
2023-24(CAYm1)	13	14	19.00	24.47
2022-23(CAYm2)	12	17	26.00	18.08

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	1.00	2.00	2.00	7.00	8.00	14.00
2023-24	2.00	2.00	4.00	8.00	13.00	17.00
2022-23	2.00	2.00	5.00	8.00	17.00	19.00
Average	RF1=1.67	AF1=2.00	RF2=3.67	AF2=7.67	RF2=12.67	AF2=16.67

C5. Visiting/Adjunct Faculty/Professor of Practice

Table No. C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr.S.Selvakumar	Managing Director	Power Project Solutions,Chennai	21EE501 Power System Analysis	30.00
2	Mr.S.Selvakumar	Managing Director	Power Project Solutions,Chennai	21EE601 Power System Protection and Switchgear	30.00
3	Mr.Jagathaguru Marimuthu	Development Engineer	Illuminen Technologies,Coimbatore	18EE702 Embedded Systems	30.00
4	Mr.Jagathaguru Marimuthu	Development Engineer	Illuminen Technologies, Coimbatore	21EE602 Microcontrollers Based System Design	30.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. G. Ravichandran	General Manager	Lakshmi Electrical Control Systems,Coimbatore	18EE604 Power System Protection and Switch Gear	30.00
2	Mr. G. Ravichandran	General Manager	Lakshmi Electrical Control Systems,Coimbatore	18HS003 Principles of Management	20.00
3	Mr. S. Natarajan	Engineer cum Trainer	Easy Arm, Bangalore	18EE702 Embedded Systems	30.00
4	Mr. S. Natarajan	Engineer cum Trainer	EASY Arm, Bangalore	18EE602 Microcontrollers Based System Design	30.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr.S.Ravi	Design Engineer	Live wire, Erode	18EE604 Power System Protection and Switchgear	30.00
2	Mr.S.Ravi	Design Engineer	Live wire, Erode	18EE403 Transmission, Distribution and Utilization	30.00

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	28	18	27
2	No. of peer reviewed conference papers published	16	25	33

3	No. of books/book chapters published	1	2	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
Ms. Andril Alagusabai		Electrical and Electronics Engineering	Metaverse Applications in Healthcare: Bridging the Physical and Virtual Worlds for Improved Patient Outcomes	DBT	1 Year	0.64
						Amount received (Rs.):0.64

(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
Ms. Andril Alagusabai		Electrical and Electronics Engineering	Application Of Non-Invasive Bio - Nano Electro Mechanical Systems (Nems) Sensors in Healthcare: Innovative and Emerging Trends	DBT	1 Year	0.59
Dr. Arun Jaikar	Dr.Sivaraman P	Electronics and Instrumentation Engineering	Technological interventions for enhancing productivity, scalability and value addition to obtain fiber from a local plant (Urtica dioica) for tribal in Nagaland- A waste to	DST-SEED	3 Years	68.82
Dr. Sathishkumar		Electrical and Electronics Engineering	Pradhan Mantri Kaushal Vikas Yojana for Technical Institutes (PMKVY - TI)	AICTE - PMKVY- TI	3 Years	13.45
						Amount received (Rs.):82.86

(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.Rajalashmi K		Electrical and Electronics Engineering	Entrepreneurship Development Training on Value Added Agriproduct Solar Dryer for the Empowerment of the Tribal Women in Kadambur Hills, Sathyamangalam	TNSCST	1 Year	0.50
Dr.Sivaraman P		Electrical and Electronics Engineering	Development Of Integrated 6- Phase Electric Drive System for Hybrid/Electric Vehicles and to Promote Sustainable Agriculture in Rural Areas	AICTE	3 Years	13.74
						Amount received (Rs.):14.24

Total Amount (Lacs) Received for the Past 3 Years: 97.74

Note*:

- Only sponsored research projects will be considered. Infrastructure-based projects will not be considered here.

C8. Consultancy Work

Table No. C8.1: List of consultancy projects received from external agencies.

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.Srinivasan M	Uvaraja V C	Electrical and Electronics Engineering	Energy Audit in Textile Industry with Energy Saving Analysis	M/S Sathy Textiles	01-04-24 to 01-05-24	0.02
Dr.Srinivasan M	Uvaraja V C, Kavitha C	Electrical and Electronics Engineering	Power Quality & Earthing Analysis Study Audit	M/S Sun Pipes, Kamadhenu Nagar, Sathy	27-01-2024 to 29-01-2024	0.02
Dr.V.T.Balamurugan	Mr. Ganesh Kumar R Mr. Sudhakar Dr. J. Haritha Mr. Pravin Savaridass, Mr.R.Arun Chendhuran	Electronics and Instrumentation Engineering, Electrical and Electronics Engineering	Skywalk Autonomous Drone Platform	Skywalk Drobotics Academy Pvt. Ltd	2023-2024	0.50
						Amount received (Rs.):0.54

(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.Manoj Kumar P	Dr.Sanjoy Deb , Arulmurugan L	Electrical and Electronics Engineering	High Voltage Personal Safety Stic	Deputy Field Director, Sundartdan Tiger Reserve Office, Near Canning Electricity	15-03-2023 to 30-03-2023	1.35
Dr.Sivaraman P	Dr.Srinivasan M	Electrical and Electronics Engineering	Reduction of Power Factor Penalty	Super Sand Ltd Kovil Medu, 3/210 Pethikuttai Road Irumbari	09-05-23 to 10-05-23	0.10
Mr.Vaideeswaran V	Mr.Santhosh Kumar K V	Electrical and Electronics Engineering	Solar PV Systems Evaluation	Jai Solar Energy Management Systems	04-06-22 to 04-07-22	0.08
Dr.V.T.Balamurugan	Dr.Manoj Kumar P	Electronics and Instrumentation Engineering, Electrical and Electronics Engineering	Plant Display Configuration Setup Modules	Trane technologies	11.09.2022	1.51
						Amount received (Rs.):3.04

(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.V.T.Balamurugan	Dr.P.Pachamuthu Ms.J.Haritha Mr.R.ArunChendhuran Mr.S.Srivel,Dr.P.Manoj Kumar	Electronics and Instrumentation Engineering, Electrical and Electronics Engineering	Machine Learning and Artificial Intelligence for the Revival of Indian Culture - Phase-I	Matrimony.com - Chennai	23.02.2021 to 23.08.2021	6.70
Dr.V.T.Balamurugan	Dr.Manoj Kumar P	Electronics and Instrumentation Engineering, Electrical and Electronics Engineering	Wireless safety dongles for Cranes	OP commerce online Ltd.	20.09.2021	0.24
Dr.V.T.Balamurugan	Dr.Manoj Kumar P	Electronics and Instrumentation Engineering, Electrical and Electronics Engineering	AWS FreeRTOS Installation and OTA Configuration	NCCODE vend system	12.05.2022	0.23
						Amount received (Rs.):7.17

Total amount (Lacs) received for the past 3 years: 10.75

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. S Veerakumar	BLDC Servo Motor	9 Months	5.64	5.64	Working models/prototypes
			Amount received (Rs.): 5.64		

(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. S Veerakumar	Radial flux BLDC	6 Months	0.64	0.64	Working models/prototypes
Dr. P Manojkumar	2 kW single phase APFC boost converter	10 Months	0.62	0.62	Working models/prototypes
			Amount received (Rs.): 1.26		

(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. Goldvin Sugirtha Dhas	Milk Flow Meter	8 Months	1.15	1.15	Working models/prototypes
			Amount received (Rs.): 1.15		

Total amount (Lacs) received for the past 3 years : 8.05

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	Basics of Electrical and Electronics Engineering Lab	30	1. Digital Multimeter 2. Transformer 3. Regulated Power Supply 4. Cathode Ray Oscilloscope	36	Mrs.P.S.Gomathi	Lab Technician	DEEE
2	Special Machines and Drives Laboratory	30	1. PMDC Motor 2. Stepper Motor 3. BLDC Motor 4. Three Phase Induction Motor 5. Regulated	16	Mr. P. Rajkumar	Lab Technician	DEEE
3	Power Electronics Laboratory	30	1. Half wave and full wave Rectifier 2. DC Chopper Control circuit 3. DC-DC Buck-Boost Converter	16	Mr. M. Sivakumar	Lab Technician	DECE

4	Electrical Drives and Automation Laboratory	30	1. 6RA80 DC Drive with DC Motors (2 Kits Package) 2. S7 1200 PLC with HMI (6 Kits	16	Mr.R. Balahamsam uruç	Lab Technician	DEEE
5	Renewable Energy Laboratory	30	1. Solar PV Emulator 2. Automatic Weather Monitoring Station 3. Solar Water Pumping	12	Mr.R. Balahamsam uruç	Lab Technician	DEEE
6	Computer Center I	30	1. Intel i5 / 8 GB RAM / 250 GB HDD personal computers 2. Projector	16	Mr. V. Suresh	Lab Technician	DEEE
7	Computer Center II	30	1. Intel i7 / 16 GB RAM / 1 TB HDD personal computers 2. MATLAB 3. Power World Simulator	16	Mr. V. Suresh	Lab Technician	DEEE

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Basics of Electrical and Electronics Engineering Laboratory	First Aid Boxes: • First Aid kits are placed in every laboratory. It is maintained and replenished periodically. • Necessary First Aid training is provided to the lab instructors Safety Measures: • Standard Operating Procedures are strictly followed for all the equipment. • For emergency situations or conditions, contact numbers of Ambulance, Fire service and security officers are displayed. • Specifications are displayed in each Equipment. • Students must follow the Lab dress code properly. • Students may operate equipment under the supervision of the lab assistant after completing necessary training. • Do's and Don'ts are displayed in the laboratory. • CCTV cameras are installed in the laboratory. Electrical Safety: • All electrical equipment and components are inspected and approved by competent authority. • Formal training and awareness programs are arranged on electrical appliances. • Working space around Lab equipment and machines are maintained properly. • All electrical panels, cables and devices are thoroughly checked periodically. • Earth Connections are checked periodically. • Circuit breaker is provided in each and every main supply panel. • Electrical Installation is periodically monitored to avoid the leakage. Fire Fighting Measurements: • Each lab is equipped with Fire Extinguishers that are placed at accessible locations. • Unobstructed access is provided to all exits and fire extinguishers. • Work instructions and supervisions are provided. Housekeeping: • Working area and equipment are cleanly maintained and organized.
2	Special Machines and Drives Laboratory, Electrical Drives and Automation Laboratory & Power Electronics Laboratory	First Aid Boxes: • First Aid kits are placed in every laboratory. It is maintained and replenished periodically. • Necessary First Aid training is provided to the lab instructors Safety Measures: • Standard Operating Procedures are strictly followed for all the equipment. • For emergency situations or conditions, contact numbers of Ambulance, Fire service and security officers are displayed. • Machine capacity and details are displayed in each machine. • Students must follow the Lab dress code properly. • Students may operate equipment under the supervision of the lab assistant after completing necessary training. • Do's and Don'ts are displayed in the laboratory. • CCTV cameras are installed in the laboratory. Electrical Safety: • All electrical equipment and components are inspected and approved by competent authority. • Formal training and awareness programs are arranged on electrical appliances. • Working space around Lab equipment and machines are maintained properly. • All electrical panels, cables and devices are thoroughly checked periodically. • Earth Connections are checked periodically. • Circuit breaker is provided in each and every main supply panel. • Electrical Installation is periodically monitored to avoid the leakage. Insulation mats are properly placed near the equipment Fire Fighting Measurements: • Each lab is equipped with Fire Extinguishers that are placed at accessible locations. • Unobstructed access is provided to all exits and fire extinguishers. • Work instructions and supervisions are provided. Computer Safety: • Uninterrupted power supply is provided to the computer in the laboratory. • Regular backup of data and information is taken. Routers, switches, and servers are properly installed and maintained. Housekeeping: • Working area and equipment are cleanly maintained and organized.

3	Renewable Energy Laboratory	First Aid Boxes: • First Aid kits are placed in every laboratory. It is maintained and replenished periodically. • Necessary First Aid training is provided to the lab instructors Safety Measures: • Standard Operating Procedures are strictly followed for all the equipment. • For emergency situations or conditions, contact numbers of Ambulance, Fire service and security officers are displayed. • Specifications are displayed in each equipment. • Students must follow the Lab dress code properly. • Students may operate equipment under the supervision of the lab assistant after completing necessary training. Electrical Safety: • All electrical equipment and components are inspected and approved by competent authority. • Formal training and awareness programs are arranged on electrical appliances. • Working space around Lab equipment and machines are maintained properly. • All electrical panels, cables and devices are thoroughly checked periodically. • Earth Connections are checked periodically. • Circuit breaker is provided in each and every main supply panel. • Electrical Installation is periodically monitored to avoid the leakage. Fire Fighting Measurements: • Each lab is equipped with Fire Extinguishers that are placed at accessible locations. • Unobstructed access is provided to all exits and fire extinguishers. • Work instructions and supervisions are provided. Computer Safety: • Uninterrupted power supply is provided to the computer in the laboratory. • Regular backup of data and information is taken. Housekeeping: • Working area and equipment are cleanly maintained and organized.
4	Computer Center I Laboratory & Computer Center II Laboratory	First Aid Boxes: • First Aid kits are placed in every laboratory. It is maintained and replenished periodically. • Necessary First Aid training is provided to the lab instructors Safety Measures: • Standard Operating Procedures are strictly followed for all the equipment. • For emergency situations or conditions, contact numbers of Ambulance, Fire service and security officers are displayed. • Specifications are displayed in each equipment. • Students must follow the Lab dress code properly. • Do’s and Don’ts are displayed in the laboratory. • CCTV cameras are installed in the laboratory. Electrical Safety: • All electrical panels, cables and devices are thoroughly checked periodically. • Earth Connections are checked periodically. • Circuit breaker is provided in each and every main supply panel. • Electrical Installation is periodically monitored to avoid the leakage. Fire Fighting Measurements: • Each lab is equipped with Fire Extinguishers that are placed at accessible locations. • Unobstructed access is provided to all exits and fire extinguishers. • Work instructions and supervisions are provided. Computer Safety: • Uninterrupted power supply is provided to the computer in the laboratory. • Regular backup of data and information is taken. • Routers, switches, and servers are properly installed and maintained. Housekeeping: • Working area and equipment are cleanly maintained and organized.

D3. Project Laboratory/Research Laboratory

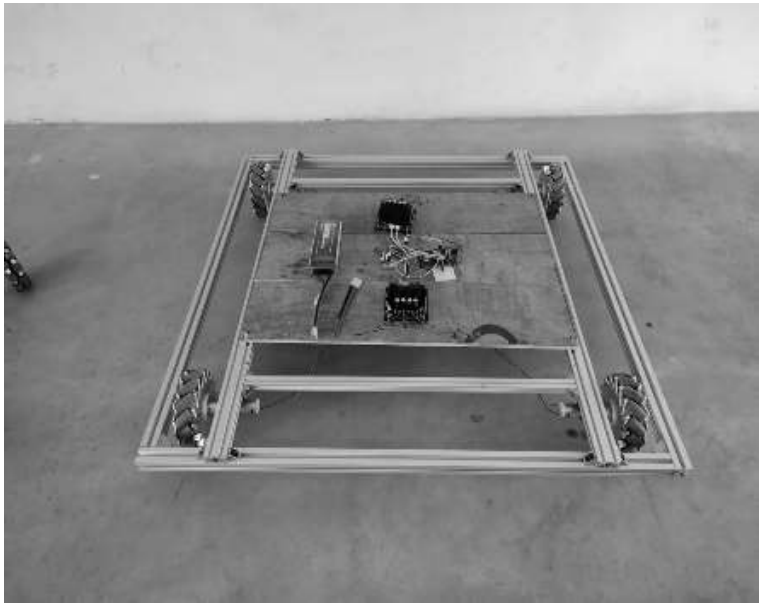
Table No. 7.5.1: List of project laboratory/research laboratory /Centre of Excellence.

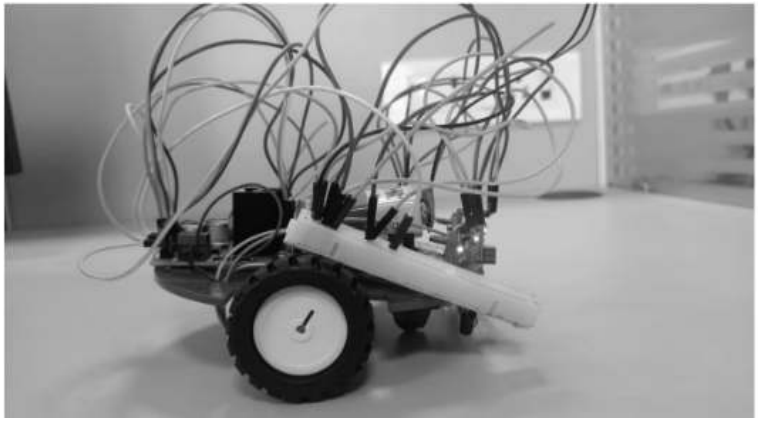
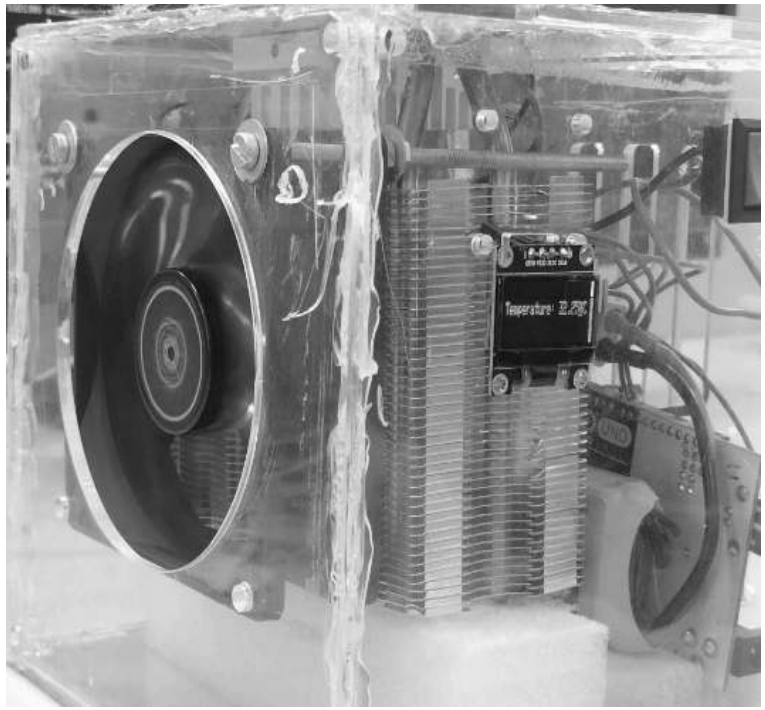
S. No.	Name of the Laboratory	Purpose and utilization
1	Electrical Drives Laboratory (Project lab)	To provide the students with state-of-the-art facilities to explore innovative ideas as well as ideas into functional prototypes, enabling the development of industry-relevant products and solutions for societal challenges. This ecosystem nurtures continuous learning via active participation in technical competitions, industry projects, and SDG initiatives. It has also spurred student involvement in areas like power electronics, electrical drives, embedded systems, cloud technologies, and communication protocols.
2	Internet of Things Laboratory (Project lab)	
3	Research Laboratory	To advance research in electrical engineering, the research lab specializes in smart grids, power electronics and renewable energy, equipped with PC, MATLAB, Power Quality Analyser and Thermal Imager. The lab is provided with turnitin software. It has produced publications/patents, and trained students for competitions.
4	Real Time Simulation Laboratory (Centre of Excellence)	To enable cutting-edge research in power electronics, renewable energy integration, and smart grid technologies, the Real-Time Simulation Lab is equipped with state-of-the-art hardware-in-the-loop (HIL) simulation, Software-in-the-Loop (SIL) Simulation, Rapid Control Prototyping (RCP), Distributed Simulation and experimental validation systems. The lab features an OPAL-RT Real-Time Simulator for high-fidelity modeling and rapid control prototyping, along with a Grid Simulator, Battery Simulator for emulating dynamic grid conditions and energy storage systems and Power Converter modules.

1. Outcomes

The outcomes of these laboratories include product development, student participation in technical competitions, publication of research papers, patent filings, and successful execution of final year and industry-driven projects, thereby contributing significantly to the academic and societal goals of the institution. The notable outcomes of the labs are as follows:

(i) Product Developed

S. No.	Product	Photo	Relevance to PO/PSO
1	Emergency Vehicle system		PO3, PO11, PSO1

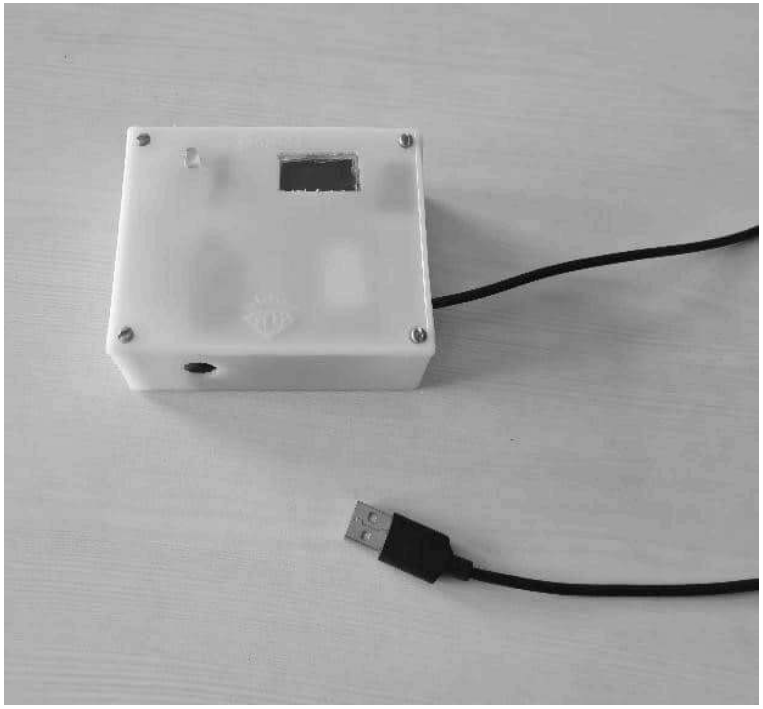
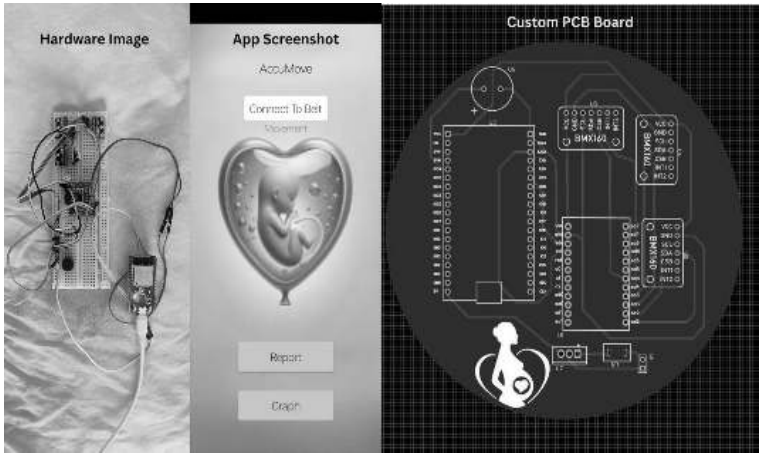
2	Maze Solver Bot		PO4, PO5, PSO1
3	Food Preservator		PO3, PO7, PSO2

4	Peltier module based incubator		PO1, PO3, PSO1

5	Water Quality Monitoring for R.O		PO1, PO4, PSO2

6	Automatic Sanitizer Dispenser (In Association with Electrical PD lab)		PO3, PO7, PSO1
7	Altura- A Digital Stadiometer		PO3, PO5, PSO1

8	Baby Monitoring System using IOT		PO3, PO11, PSO2

9	RFID-based attendance monitoring system		PO3, PO6, PSO1
10	Accumove-Non Invasive Fetal Monitoring System		PO3, PO7, PSO1

11	Real-time Video Surveillance System		PO3, PO7, PSO1
12	Temperature Monitoring System using customize dashboard		PO2, PO3, PO5, PO7, PSO1, PSO2

13	Automatic solar panel cleaning systems		PO3, PO7, PSO2

(ii) Competitions

S.No.	Competitions	Winner/Participation	Photos
1	iNTELLIMOBILITY Challenge 2024	Second Runner up	

2	ARM Inventor Challenge 2023	First prize	
3	SIH 2024	Participated	

4	MISTRAL HACKFEST-2023	Runner up	
5	SIH 2022	Runner up	

(iii) Patent filed

Sl No	Patents	Relevance to PO/PSO
1	Automatic solar panel cleaning system	PO3, PO7, PSO2
2	Dual axis solar tracking and monitoring system	PO3, PO5, PSO2
3	Design and development of dual axis solar tracking system with weather sensor	PO3, PO4, PSO2

4	RTC controlled solar light tracking systems	PO3, PO5, PSO2
5	Design and fabrication of smart sprout machine	PO1, PO5, PSO1
6	Design and fabrication of smart egg incubator	PO1, PO5, PSO1
7	Water bottle purifier	PO1, PO4, PO5, PSO1
8	AI based greenhouse automation	PO1, PO5, PSO1

(iv) Final year project

S. No.	Name of the students	Project Title	Relevance to PO/PSO
1	Abimanyu A - 181EE101 Kavipriya P - 181EE158 Krishnakaanth K R - 181EE166	Isolated DC DC Converter FOR EV	PO1,PO2,PO3,PO5,PO8,PO9,PO11,PO12,PSO1
2	Jeyashri K R - 181EE146 Kavusika C - 181EE162	design and development of multiport dc-dc converter	PO1, PO2, PO3, PO4, PO5, PO7, PO9, PO10, PSO1, PSO2
3	Sivashankar G - 191EE220	Hybrid Converter for EV	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PSO1, PSO2
4	Surthi K - 191EE234	high gain multiport DC DC converter	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PSO1, PSO2
5	Satya Priya N K - 201EE199 Rithick S - 201EE186	Simulation of a novel bidirectional t-type multilevel inverter for electrical vehicle application	PO1, PO2, PO3, PO5, PO8, PO9, PO10, PO11, PO12, PSO1
6	Gnanavel S - 211EE508 Praveen S - 211EE518 Guruprasath N - 211EE509	Optimal power flow in renewable energy integrated power systems	PO1, PO2, PO3, PO5, PO8, PO9, PO10, PO11, PO12, PSO1
7	Dhanushree V - 181EE118 MONISHA K - 181EE173 MEENA K - 181EE170	A hybrid maximum power point tracking algorithm for PV systems	PO1, PO2, PO3, PO4, PO5, PO7, PO9, PO10, PSO1, PSO2
8	Ashwin V - 181EE112 Clement Vino J - 181EE116 Divakar S - 181EE127	Design of dc to dc converter for MPPT controller based solar photovoltaic system	PO1, PO2, PO3, PO4, PO5, PO7, PSO1, PSO2
9	Ajithraj M - 191EE105 Pattilingam V - 191EE179	Implementation of ACO tuned PI controller for PV system	PO1, PO2, PO3, PO4, PO5, PO7, PO9, PO10, PSO1, PSO2

10	Ajmal Basha A - 191EE106 Sowmiya M - 191EE222	Implementation of GTO tuned PI controller for PV system	PO1, PO2, PO3, PO4, PO5, PO7, PO9, PO10, PSO1, PSO2
11	Subhashree D - 201EE216 Vani Vikhasini N R - 201EE233 Harithaarani K V - 201EE138	Sliding mode control of hybrid energy storage system	PO1, PO2, PO3, PO4, PO5, PO7, PO9, PO10, PSO1, PSO2
12	Sarathkumar A B - 7376211EE177	Power quality mitigation in BIPV system	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PSO1, PSO2

(v) Publications

S. No.	Publication	Relevance to PO/PSO
1	Sakthi Suriya Raj J.S., Sivaraman P. (2022), Hybrid DC-DC Converter for DC Microgrid Applications, Proceedings of 2022 International Conference on Intelligent Innovations in Engineering and Technology, ICIIET 2022, Institute of Electrical and Electronics Engineers Inc., 10.1109/ICIIET55458.2022.9967504.	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12
2	Santhosh N., Dineshbabu C., Srinivasan M. (2022), TRIZ based efficiency enhancement of point absorber wave energy converter, Materials Today: Proceedings, Elsevier Ltd, 66, 10.1016/j.matpr.2022.04.355.	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12
3	Sakthi Suriya Raj J.S., Sivaraman P. (2021), Design and Control of Grid Connected PV System for EV Charging Station using Multiport Converter, Proceedings - 1st International Conference on Smart Technologies Communication and Robotics, STCR 2021, Institute of Electrical and Electronics Engineers Inc., 10.1109/STCR51658.2021.9588806.	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12
4	Sivaraman P (2022), power quality impact of electric vehicle charging station on utility grid, Ieee Xplore, 1, 1.	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12
5	Sankarananth S., Sivaraman P. (2022), Performance enhancement of multi-port bidirectional DC-DC converter using resilient backpropagation neural network method, Sustainable Computing: Informatics and Systems, 36, 10.1016/j.suscom.2022.100783.	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12
6	Sankarananth S., Sivaraman P. (2022), Performance enhancement of multi-port bidirectional DC-DC converter using resilient, Indonesian Journal of Electrical Engineering and Informatics, 10, 2, 10.52549/ijeei.v10i2.3677.	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12
7	Sivaraman P (2022), PV systems based high gain converter using CI and SCC techniques, Indonesian journal of electrical engineering and informatics (IJEEI), 45932.	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12
8	Goldvin Sugirtha Dhas B (2024), Solar PV System With Modified Artificial Rabbit Optimization Algorithm For MPPT, Electrical Engineering, 106, https://doi.org/10.1007/s00202-023-02231-5.	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12
9	Srimathi R., Iqbal A., Maheshwari K.T., Maheswari R., Kamatchi Kannan V. (2021), An Efficient Boost Converter for Energy Storage Systems in a DC Distribution System, Proceedings - 1st International Conference on Smart Technologies Communication and Robotics, STCR 2021, Institute of Electrical and Electronics Engineers Inc., 10.1109/STCR51658.2021.9588893.	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12

10	Sivaraman P (2024), Improved Power Quality Cuk Converter For Electric Vehicle Battery Charging, International Conference On Intelligent Technologies For Sustainable Electric And Communications Systems.	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12
11	Srinivasan M (2024), Fuel quality assurance based on hybrid hexagonal circular hollow core PCF sensing through management of terahertz region operation, Journal of Optical Communications.	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12
12	Oorappan, G.M, Pandarinathan Sivaraman, Arumugam, J (2022), A New Nine-Level Switched-Capacitor-Based Multilevel Inverter With Low Voltage Stress and Self-Balancing, Electrical Engineering.	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12

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)	1710	86	50	60	60
2023-24(CAYm1)	1800	90	59	70	68
2024-25(CAY)	1830	92	59	74	67

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 2024-25	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	Budgeted in 2021-22	Actual Expenses in 2021-22 till
Infrastructure Built-Up	1287.11	1170.10	1480.91	1346.28	566.83	515.30	583.97	486.64
Library	45.26	41.15	41.54	37.76	67.87	61.70	68.21	60.21
Laboratory equipment	258.43	234.94	735.24	668.40	1689.60	1609.14	866.43	826.58
Teaching and non-teaching staff salary	4722.99	4293.62	4372.34	3974.85	4179.93	3799.93	3779.96	3572.80

Outreach Programs	18.33	16.66	18.80	17.09	20.67	18.79	8.95	7.83
R&D	59.53	54.11	131.08	119.16	191.38	173.98	217.26	197.51
Training, Placement and Industry linkage	227.66	206.96	242.52	220.47	394.41	358.56	200.51	182.29
SDGs	64.54	59.53	102.61	93.28	86.73	78.84	21.98	19.98
Entrepreneurship	3.25	2.09	4.76	4.33	1.97	1.79	2.47	2.15
Others, specify	5238.64	4762.40	4369.13	3971.94	3770.22	3427.48	2166.66	1923.39
Total	**11925.74**	**10841.56**	**11498.93**	**10453.56**	**10969.61**	**10045.51**	**7916.40**	**7279.38**

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 2024-25**	**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**	**Budgeted in 2021-22**	**Actual Expenses in 2021-22 till**
Laboratory equipment	14.00	11.45	23.41	19.31	69.74	63.98	1.85	1.77
Software	0.00	0.00	0.00	0.00	0.00	0.00	18.00	16.45
SDGs	3.50	3.25	2.00	1.73	3.00	2.75	0.00	0.00
Support for faculty development	0.50	0.30	1.00	0.79	6.50	6.06	0.90	0.81
R & D	30.50	24.76	48.12	42.61	85.20	79.28	3.20	3.06
Industrial Training, Industry expert, Internship	6.10	4.83	8.22	7.70	11.40	9.37	1.00	0.98
Miscellaneous Expenses*	50.19	44.60	79.86	73.65	72.21	65.30	75.90	62.07
Total	**104.79**	**89.19**	**162.61**	**145.79**	**248.05**	**226.74**	**100.85**	**85.14**