

**NATIONAL BOARD OF ACCREDITATION**  
**Data Capturing Points of the Program Applied for**  
**NBA Accreditation– Tier I UG (Engineering) Institute Programs**  
**PART-A: Profile of the Institute**

**Name of the Program Applied for:** Electrical and Electronics Engineering

**A1: Name of the Institute:** Thiagarajar College of Engineering

Year of Establishment : 1957

Location of the Institute: Madurai

**A2: Institute Address: -**

City : Madurai

State : Tamilnadu

Pin Code : 625015

Website: www.tce.edu

E-mail : [principal@tce.edu](mailto:principal@tce.edu)

Phone No (with STD Code): 0452 - 2482240

**A3: Name and Address of the Affiliating University (If any): -**

Name of the University : Anna University

City : Chennai

**A4. Type of the Institution:**

- |                                  |                                     |
|----------------------------------|-------------------------------------|
| Institute of National Importance | <input type="checkbox"/>            |
| Deemed to be University          | <input type="checkbox"/>            |
| University                       | <input type="checkbox"/>            |
| Autonomous                       | <input checked="" type="checkbox"/> |
| Non-Autonomous (Affiliated)      | <input type="checkbox"/>            |
| Any Other (Please specify*)      | <input type="checkbox"/>            |

Provide Details:

***The year of grant of autonomous is 1987. The autonomous status is applicable till the academic year 2031-32.***

**A5. Ownership Status:**

- |                             |                                     |
|-----------------------------|-------------------------------------|
| Central Government          | <input type="checkbox"/>            |
| State Government            | <input type="checkbox"/>            |
| Grant-in-Aid                | <input checked="" type="checkbox"/> |
| Self-financing Trust        | <input type="checkbox"/>            |
| Any Other (Please specify*) | <input type="checkbox"/>            |

**A6. Details of all the Programs being Offered by the Institution:****No. of UG programs : 11****No. of PG programs : 11****Table No. A7: Details of all the programs being offered by the Institution.**

S. No	Level of Program	Program Name	Year of start	Year of Close	Name of the department
1.	UG	Civil Engineering	1957	--	Civil Engineering
2.	UG	Mechanical Engineering	1957	--	Mechanical Engineering
3.	UG	Electrical and Electronics Engineering	1957	--	Electrical and Electronics Engineering
4.	UG	Electronics and Communication Engineering	1978	--	Electronics and Communication Engineering
5.	UG	Computer Science and Engineering	1984	--	Computer Science and Engineering
6.	UG	Information Technology	1999	--	Information Technology
7.	UG	Mechatronics	2014	--	Mechatronics
8.	UG	Computer Science and Business System	2020	--	Computer Science and Business System
9.	UG	Architecture	1995	--	Architecture
10.	UG	. Interior Design	2024	--	Architecture
11.	UG	Computer Science and Engineering (AI & ML)	2024	--	Computer Science and Engineering
12.	PG	Structural Engineering	1972	--	Civil Engineering
13.	PG	Construction Engineering and Management	2022	--	Civil Engineering
14.	PG	Communication Systems	1995	--	Electronics and Communication Engineering
15.	PG	Computer Science and Engineering	2001	--	Computer Science and Engineering

S. No	Level of Program	Program Name	Year of start	Year of Close	Name of the department
16.	PG	Master of Computer Applications	1985	--	Computer Applications
17.	PG	Urban Planning	2024	--	Architecture
18.	PG	Power System Engineering	1972	2024	Electrical and Electronics Engineering
19.	PG	Engineering Design	2022	2023	Mechanical Engineering
20.	PG	Industrial Engineering	1986	2022	Mechanical Engineering
21.	PG	Infrastructure Engineering and Management	2011	2022	Civil Engineering
22.	PG	Environmental Engineering	2007	2023	Civil Engineering

**A7. Programs to be Considered for Accreditation vide this Application:**

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

S.No	Name of the Department	Name of the Program
1	Civil Engineering	B.E. Civil Engineering
2	Mechanical Engineering	B.E. Mechanical Engineering
3	Electrical and Electronics Engineering	B.E. Electrical and Electronics Engineering
4	Electronics and Communication Engineering	B.E. Electronics and Communication Engineering

**Table No. A7.2:** Allied Department(s) to the Department of the program considered for accreditation as above.

S.No	Name of the Department	Name of Allied Departments/Cluster
1	Mechanical Engineering	Mechatronics
2	Electronics and Communication Engineering	Mechatronics

## PART-B: Program information

(Data to be filled in for the program applied for Accreditation)

**B1.: Provide Separate Information for the Program Applied for: -**

**Table No. B1:** Program details.

S. N.	Program Name	Year of start	Sanctioned Intake	Increase / decrease in intake, if any	Year of increase / decrease	AICTE/ Competent Authority Approval Details	Accreditation Status*	No. of times program accredited
1.	Electrical and Electronics Engineering	1957	120	No	NA	F.No. Southern/1-36479607704/2023/EOA Date: 10-Jun-2023	Accredited for Three Years 2022 to 2025	Four times (1998, 2006, 2013, 2018) Extended for three years after Compliance visit in 2022

\* Write applicable one:

- ❖ Applying first time
- ❖ Granted accreditation for 2/3 years for the period (specify period)
- ❖ Granted accreditation for 5/6 years for the period (specify period)
- ❖ Not accredited (specify visit dates, year).
- ❖ Withdrawn (specify visit dates, year)
- ❖ Not eligible for accreditation.

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

**A. Name of the HoD** : Dr. M. Saravanan

**B. Nature of Appointment:** (Tick the applicable choice)

- ❖ Regular ☒
- ❖ Contract ☐
- ❖ Add hoc ☐

**C. Qualification :** (Tick the applicable choice)

- ❖ Ph.D. ☒
- ❖ ME/M.Tech ☐
- ❖ Any other\* ☐

**\*Please provide details:** \_\_\_\_\_

### B3: Program Details

**Table No.B3.1:** Admission details for the program excluding those admitted through multiple entry and exit points.

Item (Information is to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY 2024-25	CAYm1 2023- 24	CAYm2 2022- 23	CAYm3 2021- 22	CAYm4 (LYG) 2020- 21	CAYm (LYGm1) 2019-20	CAYm6 (LYGm2) 2018- 19
N= Sanctioned intake of the program(asper AICTE /Competent authority)	120	120	120	120	120	120	120
N1= Total no. of students admitted in the 1 <sup>st</sup> year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	122	121	118	117	108	124	123
N2= Number of students admitted in 2 <sup>nd</sup> year in the same batch via lateral entry including leftover seats	-	18	24	23	30	14	13
N3= Separate division if any	2	6	2	6	9	9	8
N4= Total no. of students admitted in the 1 <sup>st</sup> year via all supernumerary quotas	-	-	-	-	-	-	-
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	<b>124</b>	<b>145</b>	<b>144</b>	<b>146</b>	<b>147</b>	<b>147</b>	<b>144</b>

CAY= Current Academic Year.

CAYm1= Current Academic Year Minus 1= Current Assessment Year.

CAYm2= Current Academic Year Minus 2= Current Assessment Year Minus 1.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 1<sup>st</sup> year.

Item (Students enrolled in the First Year on average over 3 academic years (CAY, CAYm1 and CAYm2))	CAY 2024-25	CAYm 1 2023-24	CAYm 2 2022-23
N= Sanctioned intake of the program in the 1 <sup>st</sup> year (as per AICTE/Competent authority)	120	120	120
N1= Total no. of students admitted in the 1 <sup>st</sup> year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	122	121	118
N4= Total no. of students admitted in the 1 <sup>st</sup> year via all supernumerary quotas	-	-	-
Enrolment Ratio (ER)= (N1+N4)/N	1.02	1.01	0.98
Average ER= (ER_1+ ER_2+ ER_3)/3	1.00		

#### 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	LYG 2023-24	LYGm1 2022-23	LYGm2 2021-22
A*= (No. of students admitted in the 1 <sup>st</sup> year of that batch and those actually admitted in the 2 <sup>nd</sup> 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).	147	147	144
B=No. of students who graduated from the program in the stipulated course duration	124	134	141
Success Rate (SR)= (B/A) * 100	84.35	91.15	97.91
Average SR of three batches ((SR_1+ SR_2+ SR_3)/3)	91.13		

**Note \*:** If the value of A in Table No. B5.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of A in Table No. 4.2.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2).

**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.

<b>Academic Performance</b>	<b>CAY m1 2023- 24</b>	<b>CAY m2 2022- 23</b>	<b>CAY m3 2021- 22</b>
X= (Mean of 1 <sup>st</sup> 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 1 <sup>st</sup> year/10)	7.67	7.68	7.58
Y= Total no. of successful students	124	109	118
Z =Total no. of students appeared in the examination	125	116	118
API = X* (Y/Z)	7.60	7.21	7.58
Average API = (AP1 + AP2 + AP3)/3	<b>7.46</b>		

**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.

<b>Academic Performance</b>	<b>CAY m1 2023- 24</b>	<b>CAY m2 2022- 23</b>	<b>CAY m3 2021- 22</b>
X= (Mean of 2 <sup>nd</sup> 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 2 <sup>rd</sup> year/10)	7.56	7.54	7.88
Y= Total no. of successful students	133	141	141
Z =Total no. of students appeared in the examination	133	141	143
API = X* (Y/Z)	7.56	7.54	7.77
Average API = (AP1 + AP2 + AP3)/3	<b>7.62</b>		

## 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	CAY m1 2023- 24	CAY m2 2022- 23	CAY m3 2021- 22
X= (Mean of 3 <sup>rd</sup> 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 3 <sup>rd</sup> year/10)	7.70	7.62	7.90
Y= Total no. of successful students	140	139	140
Z= Total no. of students appeared in the examination	141	141	141
API = X* (Y/Z)	7.65	7.51	7.84
Average API = (AP1 + AP2 + AP3)/3	7.67		

## B9. Placement, Higher Studies and Entrepreneurship

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

Item	LYG	LYGm1	LYGm2
FS*=Total no. of final year students	142	140	141
X= No. of students placed	83	105	116
Y= No. of students admitted to higher studies	12	10	10
Z= No. of students taking up entrepreneurship	-	-	1
X + Y + Z =	95	115	127
Placement Index (P) = (((X + Y + Z)/FS) * 100)	66.9	82.14	90.07
Average placement index = (P_1 + P_2 + P_3)/3	79.70		

**Note** \*: If the value of FS in Table No. B9.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of FS in Table No. 4.6.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2).



**PART C: Faculty Details in 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 CA**Table No. C1A: Faculty details (2024-2025)**

Sl. No.	Name of the Faculty	PAN No.	APAAR faculty ID*(if any)	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/	Nature of Association (Regular/ Contract/ Ad hoc)	If contractual mention Full time or (Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently
1.	Dr. L. Ashok Kumar	ABUPL3129J	112131719324	Ph.D	Anna University	Electrical Machines	05.09.2024	0.5	Professor	Professor	05.09.2024	Regular	-	Y	-
2.	Dr. S.Baskar	AANPB8106H	566180418128	Ph.D	Madurai Kamaraj	Power Systems	01.12.1994	30	Lecturer	Professor	14.11.2005	Regular	-	Y	-
3.	Dr.M.Saravanan	AKKPS6635B	832237675055	Ph.D	Madurai Kamaraj	Power Systems	02.01.1995	30	Lecturer	Professor	01.01.2008	Regular	-	Y	-
4.	Dr.P.Venkatesh	AAHPV4039R	782038159305	Ph.D	Madurai Kamaraj	Power Systems	01.12.1994	29	Lecturer	Professor	25.12.2011	Regular	-	Y	-
5.	Dr.K.Selvi	ACHPS6518E	705273059604	Ph.D	Madurai Kamaraj	Power Systems	02.07.1990	34	Lecturer	Professor	01.01.2009	Regular	-	Y	-
6.	Mr.S.Sivakumar	ABPPS1330R	735901851991	M.E	Madurai Kamaraj	Power Systems	13.06.1990	34	Lecturer	Associate Professor	01.01.2006	Regular	-	Y	-
7.	Dr.V.Suresh kumar	ABPPS1333N	233234272252	Ph.D	Madurai Kamaraj	Power Systems	02.06.1997	27	Lecturer	Professor	12.01.2014	Regular	-	Y	-
8.	Dr.V.Saravanan	ABPPS8304M	914278778196	Ph.D	Madurai Kamaraj	Power Systems	10.06.1997	27	Lecturer	Professor	14.03.2015	Regular	-	Y	-
9.	Dr.S.Latha	AAWPL6837C	579720354844	Ph.D	Madurai Kamaraj	Power Systems	01.10.1997	26	Lecturer	Professor	01.10.2013	Regular	-	Y	-
10.	Dr.C.K.Babulal	AHGPB5031P	286374719944	Ph.D	Madurai Kamaraj	Power Systems	27.01.2000	24	Lecturer	Professor	02.04.2018	Regular	-	Y	-

11.	Dr.M.Geethanjali	ACYPG4722B	921687923180	Ph.D	Madurai Kamaraj	Power Systems	06.12.1999	24	Lecturer	Professor	25.12.2014	Regular	-	Y	-
12.	Dr.N.Shanmuga vadivoo	AQJPS0295 A	815292863915	Ph.D	Madurai Kamaraj	Power Systems	10.12.1999	24	Lecturer	Professor	10.12.2015	Regular	-	Y	-
13.	Dr.L.JessiSahaya Shanthi	AFUPJ0678Q	983270129881	Ph.D	Anna University	Power Electronics & Drives	20.10.2004	19	Lecturer	Associate Professor	20.10.2016	Regular	-	Y	-
14.	Dr. R.RajanPrakash	AEWPR0257E	122196902670	Ph.D	Anna University	High Voltage Engineering	01.12.2004	18	Lecturer	Associate Professor	13.12.2017	Regular	-	Y	-
15.	Dr.S.Arocki a Edwin Xavier	AAAPX6458P	334874965325	Ph.D	Anna University	FACTS	18.07.2005	18	Lecturer	Associate Professor	01.03.2022	Regular	-	Y	-
16.6	Dr.P.S. Manoharan	ALVPM4513A	170931508551	Ph.D	Anna University	Power Systems	21.06.2006	17	Lecturer	Professor	01.03.2022	Regular	-	Y	-
17.	Dr.D.Kavitha	ATWPK8721B	926125416350	Ph.D	Anna University	Power Systems	05.07.2007	18	Lecturer	Associate Professor	01.09.2023	Regular	-	Y	-
18.	Dr.S.Charles Raja	AINPC8673L	761055551289	Ph.D	Anna University	Power Systems Restructuring	07.09.2007	18	Lecturer	Associate Professor	01.03.2022	Regular	-	Y	-
19.	Dr.D.Nelson Jayakumar	AFRPN5125R	598566871515	Ph.D	Anna University	Power System Optimization	11.09.2007	18	Lecturer	Assistant Professor	--	Regular	-	Y	-
20.	Dr.B.Ashok Kumar	AKAPA2911L	827786263164	Ph.D	Anna University	Instrumentation Systems	25.08.2008	17	Lecturer	Associate Professor	01.09.2023	Regular	-	Y	-
21.	Dr.G.SivaSankar	BILPS1589Q	535657750427	Ph.D	Anna University	Power Systems	02.09.2008	17	Lecturer	Associate Professor	01.09.2023	Regular	-	Y	-
22.	Dr.M.Meenakshi Devi	BKCPM2338C	567206001398	PhD	Anna University	Power System Protection	01.08.2022	2	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
23.	Dr.C.Balasundar	DQFPB6613A	893851652595	Ph. D	SASTRA Deemed University	Electric Vehicle	10.08.2022	2	Assistant Professor	Assistant Professor	--	Regular	-	Y	-
24.	Mrs.P.M.Devie	BMSPD8421K	112131719324	M.E. (Ph.D )	Anna University	Power Systems	10.07.2023	1	Assistant Professor	Assistant Professor	-	Regular	-	Y	-

The list of faculty members for the academic year 2023–2024, along with their relevant details, is provided in Table C1B.

**Table No. C1B: Faculty details (2023-2024)**

Sl. No.	Name of the Faculty	PAN No.	APAAR faculty ID*(if any)	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/	Nature of Association (Regular/ Contract/ Ad hoc)	If contractual mention Full time or (Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently
1	Dr. S.Baskar	AANPB8106H	566180418128	Ph.D	Madurai Kamaraj	Power Systems	01.12.1994	29	Lecturer	Professor	14.11.2005	Regular	-	Y	-
2	Dr.M.Saravanan	AKKPS6635B	832237675055	Ph.D	Madurai Kamaraj	Power Systems	02.01.1995	29	Lecturer	Professor	01.01.2008	Regular	-	Y	-
3	Dr.P.Venkatesh	AAHPV4039R	782038159305	Ph.D	Madurai Kamaraj	Power Systems	01.12.1994	28	Lecturer	Professor	25.12.2011	Regular	-	Y	-
4	Dr.K.Selvi	ACHPS6518E	705273059604	Ph.D	Madurai Kamaraj	Power Systems	02.07.1990	33	Lecturer	Professor	01.01.2009	Regular	-	Y	-
5	Mr.S.Sivakumar	ABPPS1330R	735901851991	M.E	Madurai Kamaraj	Power Systems	13.06.1990	33	Lecturer	Associate Professor	01.01.2006	Regular	-	Y	-
6	Dr.V.Suresh kumar	ABPPS1333N	233234272252	Ph.D	Madurai Kamaraj	Power Systems	02.06.1997	26	Lecturer	Professor	12.01.2014	Regular	-	Y	-
7	Dr.V.Saravanan	ABPPS8304M	914278778196	Ph.D	Madurai Kamaraj	Power Systems	10.06.1997	26	Lecturer	Professor	14.03.2015	Regular	-	Y	-
8	Dr.S.Latha	AAWPL6837C	579720354844	Ph.D	Madurai Kamaraj	Power Systems	01.10.1997	25	Lecturer	Professor	01.10.2013	Regular	-	Y	-
9	Dr.C.K.Babulal	AHGPB5031P	286374719944	Ph.D	Madurai Kamaraj	Power Systems	27.01.2000	23	Lecturer	Professor	02.04.2018	Regular	-	Y	-
10	Dr.M.Geethanjali	ACYPG4722B	921687923180	Ph.D	Madurai Kamaraj	Power Systems	06.12.1999	23	Lecturer	Professor	25.12.2014	Regular	-	Y	-
11	Dr.N.Shanmuga vadivoo	AQJPS 0295 A	815292863915	Ph.D	Madurai Kamaraj	Power Systems	10.12.1999	23	Lecturer	Professor	10.12.2015	Regular	-	Y	-
12	Dr.L.Jessi Sahaya Shanthi	AFUPJ0678Q	983270129881	Ph.D	Anna University	Power Electronics & Drives	20.10.2004	18	Lecturer	Associate Professor	20.10.2016	Regular	-	Y	-

13	Dr. R.RajanPrakash	AEWPR0257E	122196902670	Ph.D	Anna University	High Voltage Engineering	01.12.2004	17	Lecturer	Associate Professor	13.12.2017	Regular	-	Y	-
14	Dr.S.Arockia Edwin Xavier	AAAPX6458P	334874965325	Ph.D	Anna University	FACTS	18.07.2005	17	Lecturer	Associate Professor	01.03.2022	Regular	-	Y	-
15	Dr.P.S.Manoharan	ALVPM4513A	170931508551	Ph.D	Anna University	Power Systems	21.06.2006	16	Lecturer	Professor	01.03.2022	Regular	-	Y	-
16	Dr.D.Kavitha	ATWPK8721B	926125416350	Ph.D	Anna University	Power Systems	05.07.2007	17	Lecturer	Associate Professor	01.09.2023	Regular	-	Y	-
17	Dr.S.Charles Raja	AINPC8673L	761055551289	Ph.D	Anna University	Power Systems Restructuring	07.09.2007	17	Lecturer	Associate Professor	01.03.2022	Regular	-	Y	-
18	Dr.D.Nelson Jayakumar	AFRPN5125R	598566871515	Ph.D	Anna University	Power System Optimization	11.09.2007	17	Lecturer	Assistant Professor	--	Regular	-	Y	-
19	Dr.B.Ashok Kumar	AKAPA2911L	827786263164	Ph.D	Anna University	Instrumentation Systems	25.08.2008	16	Lecturer	Associate Professor	01.09.2023	Regular	-	Y	-
20	Dr.G.SivaSankar	BILPS1589Q	535657750427	Ph.D	Anna University	Power Systems	02.09.2008	16	Lecturer	Associate Professor	01.09.2023	Regular	-	Y	-
21	Dr.M.Meenakshi Devi	BKCPM2338C	567206001398	PhD	Anna University	Power Systems Protection	01.08.2022	2	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
22	Dr.C.Balasundar	DQFPB6613A	893851652595	Ph.D	SASTRA Deemed University	Electric Vehicle	10.08.2022	1	Assistant Professor	Assistant Professor	--	Regular	-	Y	-
23	Mrs.P.M.Devie	BMSPD8421K	112131719324	Ph.D	Anna University	Power Systems	10.07.2023	0.5	Assistant Professor	Assistant Professor	-	Regular	-	Y	-

The list of faculty members for the academic year 2022–2023, along with their relevant details, is provided in Table C1C.

**Table No. C1C: Faculty details (2022-2023)**

Sl. No.	Name of the Faculty	PAN No.	APAAR faculty ID*(if any)	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/	Nature of Association (Regular/ Contract/ Ad hoc)	If contractual mention Full time or (Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently
1.	Dr. S.Baskar	AANPB8106H	566180418128	Ph.D	Madurai Kamaraj	Power Systems	01.12.1994	28	Lecturer	Professor	14.11.2005	Regular	-	Y	-
2.	Dr. M. Saravanan	AKKPS6635B	832237675055	Ph.D	Madurai Kamaraj	Power Systems	02.01.1995	28	Lecturer	Professor	01.01.2008	Regular	-	Y	-
3.	Dr. P. Venkatesh	AAHPV4039R	782038159305	Ph.D	Madurai Kamaraj	Power Systems	01.12.1994	27	Lecturer	Professor	25.12.2011	Regular	-	Y	-
4.	Dr.K.Selvi	ACHPS6518E	705273059604	Ph.D	Madurai Kamaraj	Power Systems	02.07.1990	32	Lecturer	Professor	01.01.2009	Regular	-	Y	-
5.	Mr. S. Sivakumar	ABPPS1330R	735901851991	M.E	Madurai Kamaraj	Power Systems	13.06.1990	32	Lecturer	Associate Professor	01.01.2006	Regular	-	Y	-
6.	Dr. V. Suresh kumar	ABPPS1333N	233234272252	Ph.D	Madurai Kamaraj	Power Systems	02.06.1997	25	Lecturer	Professor	12.01.2014	Regular	-	Y	-
7.	Dr. V. Saravanan	ABPPS8304M	914278778196	Ph.D	Madurai Kamaraj	Power Systems	10.06.1997	25	Lecturer	Professor	14.03.2015	Regular	-	Y	-
8.	Dr. S. Latha	AAWPL6837C	579720354844	Ph.D	Madurai Kamaraj	Power Systems	01.10.1997	24	Lecturer	Professor	01.10.2013	Regular	-	Y	-
9.	Dr. C. K. Babulal	AHGPB5031P	286374719944	Ph.D	Madurai Kamaraj	Power Systems	27.01.2000	22	Lecturer	Professor	02.04.2018	Regular	-	Y	-
10.	Dr. M. Geethanjali	ACYPG4722B	921687923180	Ph.D	Madurai Kamaraj	Power Systems	06.12.1999	22	Lecturer	Professor	25.12.2014	Regular	-	Y	-

11.	Dr. N. Shanmuga vadivoo	AQJPS0295A	815292863915	Ph.D	Madurai Kamaraj	Power Systems	10.12.1999	22	Lecturer	Professor	10.12.2015	Regular	-	Y	-
12.	Dr.L.Jessi Sahaya Shanthi	AFUPJ0678Q	983270129881	Ph.D	Anna University	Power Electronics & Drives	20.10.2004	17	Lecturer	Associate Professor	20.10.2016	Regular	-	Y	-
13.	Dr. R .Rajan Prakash	AEWPR0257E	122196902670	Ph.D	Anna University	High Voltage Engineering	01.12.2004	16	Lecturer	Associate Professor	13.12.2017	Regular	-	Y	-
14.	Dr.S.Arocki a Edwin Xavier	AAAPX6458P	334874965325	Ph.D	Anna University	FACTS	18.07.2005	16	Lecturer	Associate Professor	01.03.2022	Regular	-	Y	-
15.	Dr .P. S .Manoharan	ALVPM4513A	170931508551	Ph.D	Anna University	Power Systems	21.06.2006	15	Lecturer	Professor	01.03.2022	Regular	-	Y	-
16.	Dr. R. Helen	AFGPH2128	836901666610	Ph.D	Anna University	Image Processing	25.07.2006	16	Lecturer	Assistant Professor	--	Regular	-	N	01/05/23
17.	Dr.D. Kavitha	ATWPK8721B	926125416350	Ph.D	Anna University	Power Systems	05.07.2007	16	Lecturer	Assistant Professor	01.09.2023	Regular	-	Y	-
18.	Dr.S.Charles Raja	AINPC8673L	761055551289	Ph.D	Anna University	Power Systems Restructuring	07.09.2007	16	Lecturer	Associate Professor	01.03.2022	Regular	-	Y	-
19.	Dr.D.Nelson Jayakumar	AFRPN5125R	598566871515	Ph.D	Anna University	Power System Optimization	11.09.2007	16	Lecturer	Assistant Professor	--	Regular	-	Y	-
20.	Dr.B.Ashok Kumar	AKAPA2911L	827786263164	Ph.D	Anna University	Instrumentation Systems	25.08.2008	15	Lecturer	Assistant Professor	01.09.2023	Regular	-	Y	-
21.	Dr.G. SivaSankar	BILPS1589Q	535657750427	Ph.D	Anna University	Power Systems	02.09.2008	15	Lecturer	Assistant Professor	01.09.2023	Regular	-	Y	-
22.	Dr.M. Meenakshi Devi	BKCPM2338 C	567206001398	PhD	Anna University	Power Systems Protection	01.08.2022	0.5	Assistant Professor	Assistant Professor	-	Regular	-	Y	-
23.	Dr.C. Balasundar	DQFPB6613A	893851652595	Ph.D	SASTRA Deemed University	Electric Vehicle	10.08.2022	0.5	Assistant Professor	Assistant Professor	--	Regular	-	Y	-

**Table No.C2:** Faculty details of Allied Departments for the past 3 years including CAY - Not Applicable

S.N.	Name of the Faculty	PAN No.	APAAR faculty ID*(if any)	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)	If contractual mention Full time or(Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is “No” )
1															
:															

## C2. Student-Faculty Ratio (SFR)

- ❖ No. of UG(Engineering) programs in Department including allied departments/clusters (UG<sub>n</sub>):
  - UG1=1<sup>st</sup> UG program
  - UG<sub>n</sub>=n<sup>th</sup> UG program
    - **B= No. of Students in UG 2<sup>nd</sup> year (ST)**
    - **C= No. of Students in UG 3<sup>rd</sup> year (ST)**
    - **D= No. of Students in UG 4<sup>th</sup> year (ST)**
- ❖ No. of PG (Engineering) programs in Department including allied departments/clusters (PG<sub>m</sub>):
  - PG1=1st PG program.
  - PG<sub>m</sub>=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)).**

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

Year	CAY	CAYm1	CAYm2
UG1. B	132	132	132
UG1. C	132	132	132
UG1. D	132	132	132
UG1	396	396	396
PG1. A		18	25
PG1. B	18	25	25
PG1	18	43	50
DS=Total no. of students in all UG and PG programs in the Department	414	439	446
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	23	23	23
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	0	0
<b>Student Faculty Ratio (SFR)=S/(F-FF)</b>	<b>18</b>	<b>19.09</b>	<b>19.39</b>
<b>Average SFR for 3 years</b>	<b>18.83</b>		



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**Note:** Programs such as MCA, BCA, and other non-engineering programs running in the Department or allied Departments need to have sufficient faculty members to support those programs. These faculty members and students should not be included in Table No. 5.1.2.

### 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 5.1 of SAR; (RF=S/20).

**Table No.C3.1:** Faculty qualification.

Year	X	Y	RF	FQI= $2.5 * [(10X + 4Y)/RF]$
CAY	21	2	20.7	26.32
CAYm1	21	2	21.95	24.83
CAYm2	23	1	22.3	26.23
<b>Average Assessment</b>				<b>25.79</b>

### C4. Faculty Cadre Proportion

- ❖ Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- ❖ RF1= No. of Professors required =  $1/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section 5.1 of SAR.}$ 
  - RF2= No. of Associate Professors required =  $2/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section 5.1 of SAR.}$
  - RF3= No. of Assistant Professors required =  $6/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section 5.1 of SAR.}$
- ❖ 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 Faculty (RF1)	Available Faculty (AF1)	Required Faculty (RF2)	Available Faculty (AF2)	Required Faculty (RF3)	Available Faculty (AF3)
CAY	2.30	11	4.6	8	13.80	4
CAYm1	2.44	11	4.88	8	14.64	4
CAYm2	2.48	11	4.96	5	14.87	7
<b>Average Numbers</b>	<b>RF1= 2.41</b>	<b>AF1= 11</b>	<b>RF2= 4.81</b>	<b>AF2= 7</b>	<b>RF3= 14.43</b>	<b>AF3= 5</b>

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**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.

Sl. No..	Name of the Person	Designation & Organization	Name of the Course	No. of hours handled
<b>CAYm1</b>				
1	Er..R.Ramesh	Design Manager, Microchip, Chennai	18EE1G0 – ASIC design with UDSM nodes	12
<b>Total no. of hours:</b>				12
<b>CAYm2</b>				
1	Er. A. Karthikrajan	Director - Operations R S P Control Projects Pvt. Ltd, Chennai	18EE1F0 Industrial Drives and Automation	12
<b>Total no. of hours:</b>				12
Sl. No..	Name of the Person	Designation & Organization	Name of the Course	No. of hours handled
<b>CAYm3</b>				
1	Mr.R.Ramesh (Adjunct Faculty)	Design Manager, Microchip, Chennai	18EE340- Digital Systems	20
2	Mr.R.Ramesh	Design Manager, Microchip, Chennai	18EEPH0 – VLSI Design	13
3	Mr.R.Ramesh	Design Manager, Microchip, Chennai	18EE1G0 – ASIC design with UDSM nodes	12
4	Mr.Rajvikram Madurai Elavarasan (Adjunct Faculty)	Subject Matter Expert at Research and Development Division (Power & Energy), Nestlives Pvt Ltd, Chennai 600091, India.	18PGAA0 – Professional Authoring	13
5	Ramakrishnan GK	General Manager, Energy Operations, Wartsila India Pvt Ltd	18EE2H0 Energy Storage Systems	20
<b>Total no. of hours:</b>				<b>78</b>

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### C6. Academic Research

**Table No. C6.1:** Faculty publication details.

S.N.	Item	CAYm1	CAYm2	CAYm3
1	No. of peer reviewed journal papers published	38	26	37
2	No. of peer reviewed conference papers published	53	69	27
3	No. of books/book chapters published	07	06	03

### C7. Sponsored Research Project

**Table No.C7.1 :** List of sponsored research projects received from external agencies.

Sl. No.	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 (Rs. Lacs)
<b>CAYm2 - 2022-23</b>							
1	Dr.M.Meenakshi Devi	Nil	EEE	Digitalization of Bus tracking and Fare collection system	TamilNadu State Council for Science and Technology	6 months	0.075
2	Dr.S.Baskar, Dr.K.ChockalingamDr.P.Venkatesh, Dr.A.Valan Arasu, Dr.K.Srithar, Dr.S.Charles Raja	Nil	EEE & MECHANICAL	Fund for Improvement of S&T Infrastructure Scheme	Department of Science and Technology - FIST Scheme	5 Years	57.00
3	Dr.K.Selvi & Ms.RM.Meenakshi	Nil	EEE	Design of a deep learning representation of controllers for a grid interactive microgrid	Department of Science and Technology -WoS-A Scheme	3 Years	31.52
<b>Amount received (Rs.)</b>							<b>88.595</b>
<b>CAYm3 - 2021-22</b>							
1	Dr.B.Ashok kumar	Nil		Energy management system in residence using smart controller	TamilNadu State Council for Science and Technology	6 months	0.075
2	Dr. S.Baskar	Nil		Modernization of Electrical Machines and Drives Lab	AICTE – MODROBS	3 Years	11.00
<b>Amount received (Rs.)</b>							<b>11.075</b>
<b>Total Amount (Lacs) Received for the Past 3 Years</b>							<b>99.67</b>

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## C8. Consultancy Work

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

S.N	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)
<b>CAYm1 - 2023-24</b>							
1	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	LED Light Fitting	Mahaveer Electro Controls/Sholavanthan Town Panchayat	05/03/2024	0.01416
2	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Cable Quality	Thiagarajar Mills P Limited, Madurai	20/02/2024 to 18/03/2024	0.02360
3	Dr.V.Suresh Kumar,	Dr.V.Saravanan, Dr.G.Sivasankar	EEE	Power Quality audit	Hannah Joseph Hospital Ltd	31.07.2023 & 19.02.2024	0.59000
4	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Inspection, Verification & Conditional Assessment in STP, Lawspet, Puduchery	Public Works Department, Puducherry	15.02.2024	0.88500
<b>Amount received in Lakhs (Rs.)</b>							<b>1.51276</b>
<b>CAYm2 - 2022-23</b>							
1	Dr.V.Saravanan	Dr.G.Sivasankar, Dr.B.Ashok Kumar	EEE	Lithium Ion Battery Charging and Discharging Characteristics	Royal Annanmar, Namakkal	28/06/2023 to 12.07.2023	0.05900
2	Dr.V.Saravanan	Dr.G.Sivasankar, Dr.B.Ashok Kumar	EEE	Detailed Energy Audit & Green Audit	St. Mary College, Tuticorin	21/06/2023	0.70800
3	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Performance estimation of LED Light Fittings	A.N.Kannan, Madurai	17/06/2023	0.01180
4	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Lighting	Smart Watt Energy	12/06/2023	0.05900

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S.N	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)
	nan	oharan		Level Assessment	Solutions, Madurai		0
5	Dr.P.S.Manoharan	Dr.V.Saravanan	EEE	Inspection, Verification & Conditional Assessment in STP, Lawspet, Puducherry	Public Works Department, Puducherry	26/05/2023	0.88500
6	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Performance estimation of LED Light Fittings	Global Trading Corporation, Madurai	21/04/2023 to 25/04/2023	0.01180
7	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Performance estimation of Electric Vehicle	e Royce Motors india Private Limited, Coimbatore	20/03/2023 to 25.03.2023	0.11800
8	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Performance estimation of LED Light Fittings	Global Trading Corporation, Madurai	9/3/2023	0.01180
9	Dr.P.S.Manoharan	Dr.V.Saravanan	EEE	Inspection, Verification & Conditional Assessment in STP, Dubriyapet, Puducherry	Public Works Department, Puducherry	27/01/2023	0.88500
<b>Amount received in Lakhs (Rs.)</b>							<b>2.7494</b>
<b>CAYm3 - 2021-22</b>							
1	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	150HP Vertical Turbine Pump & Prime mover Installation Verification	Municipal Commissioner, Cumbum	7/12/2022 to 13/12/2022	0.11800
2.	Dr.P.S.Manoharan	Dr.V.Saravanan	EEE	Electrical performanc	Maruthi trading Corporation	21.11.2022	0.04720

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S.N	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)
				Performance estimation			
3	Dr.P.S.Manoharan	Dr.V.Saravanan	EEE	Inspection, Verification & Conditional Assessment in STP, Dubriyapet, Puduchery	Public Works Department, Puducherry	23/06/2022	0.88500
4	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	UG Cable Parameter Measurement	N.Pandiyaraj, Virudhunagar	7/7/2022 to 19/7/2022	0.01180
5	Dr.D.Nelson Jayakumar	Dr.V.Saravanan & Dr.P.S.Manoharan	EEE	Detailed Energy Audit	Tata Bluescope Steel Private Limited, Chennai	12/05/2022	0.29500
6	Dr. G. Sivasankar	Not Available	EEE	Boot light switch and cabin light testing	TVS Sensing Solution Pvt Ltd, Madurai	4.5.2022	0.02596
7	Dr. G. Sivasankar	Not Available	EEE	Battery charging converter	TVS Sensing Solution Pvt Ltd, Madurai	26/4/.2022	0.02596
8	Dr.D.Nelson Jayakumar	Dr.V.Saravanan & Dr.P.S.Manoharan	EEE	Detailed Energy Audit	P.A.Seetharaman & Co, Madurai	05/04/2022	0.23600
9	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Performance estimation of LED Light Fittings	L.Rajendran, Cumbum	25/03/2022	0.01770
10	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Performance estimation of LED Light Fittings	J.K.Enterprises, Madurai	16/2/2022 to 23/2/2022	0.01180
11	Dr.V.Suresh Kumar	Dr.P.S.Manoharan	EEE	Power Quality Analysis	HiTech Arai Private Limited, Kappalur, Madurai	03/02/2022,	0.29500
12	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Performance estimation of Light Accessories	Global Trading Corporation, Madurai	16/2/2022 to 23/2/2022	0.00590

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S.N	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)
13	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Performance estimation of LED Light Fittings	J.K.Enterprises, Madurai	16/12/2021 to 21/12/2021	0.01180
14	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Performance estimation of LED Light Fittings	Global Trading Corporation, Madurai	25/10/2021 to 26/10/2021	0.01180
15	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Performance estimation of LED Light Fittings	J.K.Enterprises, Madurai	23/10/2021 to 26/10/2021	0.01770
16	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Dimension & Conductor Resistance Measurement for UG Cable	Assistant Engineer, TNPSC Led, Madurai Division	28/09/2021 to 5/10/2021	0.00944
17	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Performance estimation of LED Light Fittings	J.K.Enterprises, Madurai	10/8/2021 to 12/8//2021	0.07670
18	Dr.V.Saravanan	Dr.P.S.Manoharan	EEE	Performance estimation of LED Light Fittings	Municipal Commissioner, Bodinayakanur	28/04/2021 to 30.04.2021	0.17700
<b>Amount received in Lakhs (Rs.)</b>							2.27976
<b>Total Amount (Lacs) Received for the Past 3 Years</b>							<b>6.53</b>

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**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.

S.N.	Faculty name	Project title/ Support for Activity	Duration	Amount (Lacs)	Amount Utilized (Lacs)	Outcomes of the project
<b>CAYm1 - 2023-24</b>						
1.	Dr.S.Charles Raja	IoT Based Application Dashboards for	2 Years	1.00	0.99	Product Development, Paper Publications to enhance students' skill towards participating in various national and international events like Hackathon
2.	Dr. B. Ashok Kumar Dr.G.Sivasankar	Advanced all Terrain Vehicle - Model Design and fabrication	1 year	0.8	0.6	Fabricated the vehicle and participated in the contest
<b>Amount received (Rs.)</b>					<b>1.59</b>	
<b>CAYm2 - 2022-23</b>						
1	Dr.R.Rajan Prakash	Design and Development of Drones	2 Years	0.50	0.83	Working model development Students' skill development
2	Dr.P.S.Manoharan	Development of Electric Drive Train	1 Year	0.50	0.49	Paper Publication Working model development Students' skill development
3	Dr.G.Siva Sankar	Electric Vehicle Setup with BMS Trainer	2 Years	1.50	1.32	Paper Publication Working model development Students' skill development
4	Dr. B. Ashok Kumar Dr.G.Sivasankar	Advanced all- Terrain Vehicle - Design and fabrication	1 year	0.5	0.4	Fabricated the vehicle and participated in the contest
<b>Amount received (Rs.)</b>					<b>3.04</b>	
<b>CAYm3 - 2021-22</b>						
1	Dr.B.Ashok Kumar	Experimental analysis of PQ parameter measurement	2 Years	1.2	1.08	Product Development Students' skill development



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		and its estimation with AI application				
2	Dr.S.Arockia Edwin Xavier	Speed control of Various Types of EV motors	2 Years	1.5	1.48	Product Development Students' skill development
<b>Amount received (Rs.)</b>					<b>2.56</b>	
<b>Total Amount (Lacs) Received for the Past 3 Years</b>					<b>7.19</b>	

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**PART-D: Laboratory Infrastructure in the Department**

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

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

S. N.	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the Important equipment	Weekly utilization status (Hours)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1	Applied Electronics Laboratory	3	Digital Trainer kit, Computers, RPS, CRO/DSO, AFO, IC Tester Kit, NI My DAQ software, Solar Energy Experiment system, Solar PV Wind Hybrid system with DC micro Grid, DigSilent Power factory software	10	K.Raji	Lab Technician	Diploma (EEE) B.E. (EEE)
2	Computer Laboratory	1	HP Proliant ML110G6-Windows 2008 Server Client -40 nos. 5KVA UPS -2,3KVA UPS -1, HP 1020 Laser Printer-1	18	M. Ramdoss	Artisan Grade -II	Diploma (EEE)
3	Control System Laboratory	3	Water Level control trainer, Conveyer belt sorting interface kit, PLC Trainers, PC based DAQ, LVDT, Thermocouples, LAB View and MATLAB Software Pressure Control Trainer, PC Temperature control Trainer, Level and pressure process control trainer, PLC Trainers, PC based DAQ, Cascade valve trainer, MATLAB software	24	E.Paraman	Artisan Grade II	Diploma (EEE)
4	Electrical Machines Laboratory	3	DC Motor and DC Shunt/ Compound Generators Set – 2Nos. DC Shunt / Series Motor with Braking arrangements – 3Nos.	12	M.Baskaran M.Raghu	Lab technician Lab	Diploma (EEE) B.E.(EEE)

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S.	Name of the	No. of	Name of the Important equipment	Weekly	Technical Manpower support		
			DC Series Generator set -1Nos. DC Cascading Drive set – 1No. Three Phase Slipring Induction motor – 1No. Three Phase Squirrel Cage Induction Motor with VFD Drive – 1Nos. Energy Efficient Three Phase Induction Motor -1No. Std. Three Phase Induction Motor-1No. Three Phase Salient Pole Alternator set -1No Three Phase Cylindrical Pole Alternator set – 3Nos. Three Phase Synchronous Motor Set -1No. Digital Clamp-on Power meter, Single Phase Induction Motor with Brake drum arrangements – 2Nos. DC Rectifier -200A 230V – 1No. Single Phase 1/2/3KVA Transformer – 10Nos. Calibration meters, Siemens DC Drives Trainer kit -1No KRYKARD Power meter – 3Nos. Vibration Meter – 1Nos.			technician	
5	Embedded Systems Laboratory	2	8051 Microcontroller Trainer kits-20, Embedded C compiler, Flash Magic software installed Computers-24, DSOs-3, Embedded Cortex M4 Microcontroller Trainer Kits with Development Boards-10, TM4C123 Microcontroller Starter Kits for Embedded lab with Launch Pad and their accessories-10, Arduino kit-16, ESP-32 /ESP-8266, Rashberrypi kit-6, Matlab	12	P.Manoharan  M.Gopi	Artician Grade I  Lab Technician	Diploma (EEE) B.E. (EEE)  Diploma (EEE) B.E. (EEE)
6	Power Electronics Laboratory	3	HIOKI Power Quality Analyzer, Siemens micro-master/vector drive, Fluke power scope (200mhz, 2gs/s),	10	S.Saravanan	Lab Instructor	ITI

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S.	Name of the	No. of	Name of the Important equipment	Weekly	Technical Manpower support		
			HAMEG storage oscilloscope, (150mhz, 200ms/s), TMS 320C50 DSP controller TMS 320F2407 DSP trainer kit, TMS 320F2407 DSP trainer kit, 3 phase IGBT based intelligent power modules, 3 phase induction motor DC generator set, DC motor –DC generator set, FACTS controllers				

**D2. Safety Measures in Laboratories**

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

S.N	Name of the Laboratory	Safety measures
1	Applied Electronics Laboratory	Fire Extinguisher -2, First Aid Kit Box-1, Safety mat in the Electrical Panel
2	Computer Laboratory	Fire Extinguisher, First Aid Box
3	Control System Laboratory	Fuse in each work table, Fire Extinguisher, Circuit breakers, First Aid Box
4	Electrical Machines Laboratory	Earth Leakage Circuit Breakers, Sand Bucket, Fire Extinguisher, First aid kit, Floor rubber mat, Gloves, Wearing shoes and other safety instructions displayed in notice, Do's and Don'ts during Electric Shock
5	Embedded Systems Laboratory	Fire Extinguisher, First Aid Box
6	Power Electronics Laboratory	Fire Extinguisher, First Aid Box

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S.N	Name of the Laboratory	Safety measures
7	Electric Vehicle Laboratory	Fire Extinguisher, First Aid Box
8	Automation Lab	Fire Extinguisher, First Aid Box
9	Project Laboratory & Skill Development Laboratory	Fire Extinguisher, First Aid Box

**D3. Project Laboratory/Research Laboratory /Centre of Excellence****Table No. D3.1:** List of project laboratory/research laboratory /Centre of Excellence.

S.No.	Name of Laboratory
1	Project Laboratory
2	Centre of Excellence in Electric Vehicle Testing

The Electrical and Electronics Engineering Project Laboratory is dedicated to undergraduate students. The objective of Project Laboratory is to facilitate, support and provide facilities required for doing project works in this laboratory. It provides the opportunity for the students to have hands-on experience with the state-of-the-art prototype and product development environment. Group of students can pool their knowledge and solve a specific design problem by designing a prototype model which can be fully tested and documented using the facilities available in the laboratory. A technical supporting staff (M. Ramdoss with an experience of 16 years) is available in the laboratory who assists the students in developing the prototype models. This laboratory is functional during regular working hours and also beyond working hours up to 6.30 P.M. This laboratory is not utilized for doing regular laboratory course experiments.

**Capabilities of the project laboratory:**

The laboratory has 15 dedicated computers installed with necessary simulation software, oscilloscopes, function generators, multiple power supplies, and digital multimeters. In some cases, specialized equipment such as power quality analyzer, spectrum analyzer or digital data analyzer will be made available based on student needs. This lab has a soldering facility, basic electronic components, connectors and wiring accessories. Tools, specific components and test equipment are also purchased by the student's team prior to starting as well as while doing the project in a phased manner. More advanced or specific engineering application software tools can be installed in the computers by the student teams, as required. The students can model and simulate any circuits/systems using the simulation software available in the laboratory. Fabrication of hardware modules/circuits/robots can be done in the project laboratory which can be then tested in the same laboratory itself or by taking them to the respective laboratories if needed.

**Major Equipment Available:**

S. No.	Name of the Equipment
1.	Microcontroller Development Kits-PIC, AVR, ARDUINO, Raspberry –PI
2.	DSP Kits
3.	ARDUINO Shields
4.	Universal Programmer, PIC Programmer, AVR Programmer
5.	PCB machine, Bread boards, Soldering station
6.	Function Generators
7.	Digital Storage Oscilloscopes(DSO)
8.	Power Quality Analyzer
9.	Spectrum Analyzer
10.	FPGA development kits

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S. No.	Name of the Equipment
11.	Computers-15 Nos
12.	AC & DC Motors
13.	Sensors
14.	Current Transformers
15.	Electronic Devices (DIODE,BJT, MOSFET, IGBT, Thyristors, TRIAC, DIAC ,etc.)
16.	Heat sinks
17.	Intelligent Power Modules(IPM)

S.N	Name of Laboratory	Details	Purpose for creating facility	Utilization	Relevance to POs/PSOs
1	Project Laboratory	<ul style="list-style-type: none"> <li>• 11<sup>th</sup> Gen Intel I core I i5 11500 CPU @ 2.70GHz – 2nos</li> <li>• HP Intel core I i5 – 8500 CPU @ 3.00GHz – 5nos</li> <li>• HP Intel core I i5 – 6500 CPU @ 3.20GHz – 2nos</li> <li>• HP Compaq 6000 Pro Intel 2 Due E6500 CPU @ 3.20 GHz – 3nos</li> <li>• Raspberry PI 3</li> <li>• Arduino UNO</li> <li>• Arduino MEGA</li> <li>• Soldering Iron Set</li> <li>• PCB Etching Machine</li> <li>• PCB Drilling Machine</li> </ul>	For UG students Project works and for Research scholars	80%	PO2, PO5 PO9, PO11  PSO1

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S.N	Name of Laboratory	Details	Purpose for creating facility	Utilization	Relevance to POs/PSOs
		<ul style="list-style-type: none"> <li>PCB Shearing Machine</li> <li>Function Generators</li> <li>Digital Storage Oscilloscope</li> <li>Digital Multi meter</li> </ul>			
2	Electric Vehicle Testing Centre	<ul style="list-style-type: none"> <li>Battery Simulator - Charge / Discharge Controller</li> <li>Tektronix Make Programmable DC Power Supply</li> <li>Programmable AC Power Source</li> <li>500V Electrical Safety Compliance Analyzer</li> <li>Tektronix Make Mixed Domain Oscilloscope</li> <li>Spectrum Analyzer</li> <li>4-Channel 4425 Standard kit Oscilloscope Pico</li> </ul>	<ul style="list-style-type: none"> <li>Drive cycle test</li> <li>Dynamic Stress Test</li> <li>Life cycle test</li> <li>Electric equipment testing</li> <li>DC equipment withstand test</li> <li>PQ/Harmonic Study</li> <li>Motor Vibration/ performance Analysis               <ul style="list-style-type: none"> <li>High Voltage withstand Test (AC&amp;DC) Insulation Resistance Test</li> <li>Analysis of power quality, switching loss, harmonics THD analysis for different, Voltage/current ripple, modulation, and safe operating area measurements</li> </ul> </li> <li>Noise figure measurement, Phase noise measurements</li> <li>Electromagnetic interference and electromagnetic compatibility measurements. Power and frequency measurement</li> <li>Harmonic analysis for different non-linear loads Timing analysis, Digital system design and characterization IC package characterization,</li> </ul>	50%	PO2, PO5 PO9, PO11  PSO1

**Software Available:**



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S. No.	Name of the Software	Purpose	Purchased / Open Source	Utilization
1	MATLAB	A programming language and numeric computing platform that's used for scientific and engineering applications. It's used for data analysis, signal and image processing	Purchased / Licensed	80%
2	PSCAD	Build, simulate, and model your systems with ease, providing limitless possibilities in power system simulation	Purchased / Licensed	50%
3	dSPACE	Supports technology and mobility providers around the globe in making life safer, cleaner, and easier.	Open Source	20%
4	Pspice	A software tool used to design and simulate electronic circuits. It's a standard tool in the industry for mixed-signal and reliability simulation.	Open Source	50%
5	PLECS	A software tool used to design and simulate electronic circuits. It's a standard tool in the industry for mixed-signal and reliability simulation.	Open Source	50%
6	VisSim	Used for traffic simulation and Multimodal transportation modelling	Open Source	20%
7	KEIL, IAR, CCS	Provides tools for developing applications for ARM-Based microcontrollers	Open Source	80%

**Part E: First Year Faculty and Financial Resources**

**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= $((NS1*0.8)+(NS2*0.2))/RF4$
2024-25	1089	54	52	54	$((52 * 0.8) + (54 * 0.2)) / 54$ = 97.03
2023-24	1029	51	46	51	$((46 * 0.8) + (51 * 0.2)) / 51$ = 92.15
2022-23	885	44	35	39	$((35 * 0.8) + (39 * 0.2)) / 44$ = 81.36
<b>Average Percentage</b>					<b>90.18</b>

**NATIONAL BOARD OF ACCREDITATION**

**Table No. E2.1:** Budget and Actual expenditure incurred at Institute Level

Items	Budgeted in 2024-25	Actual Expenses in 2024-25 (Till Feb 25)	Budgeted in 2023-24	Actual Expenses in 2023-24	Budgeted in 2022-23	Actual Expenses in 2022-23	Budgeted in 2021-22	Actual Expenses in 2021-22
Infrastructure Built-up	37500000	34087015	20000000	19961745	11440000	23641439	6720000	1811376
Library	4512000	4749428	2170000	3728829	1700000	2808000	1882000	2431000
Laboratory Equipment	12900000	30290176	9550000	34428169	34000000	45247125	29100000	22275277
Teaching and Non-Teaching staff Salary	500000000	454846927	480000000	453029717	420000000	398383720	450000000	449856429
Outreach Programme	8500000	7288143	7500000	6634433	5000000	4826847	2500000	2297232
R&D	50000000	45340242	55000000	54769766	23500000	16812466	17500000	16767576
Training Placement and Industry linkage	4000000	3440664	10000000	9865322	4500000	4358414	3000000	2935137
SDGs	22500000	20356702	18000000	18800686	13500000	14119133	12000000	11762580
Entrepreneurship	1500000	1026882	2500000	2510922	2200000	1302856	500000	303146
Others	45000000	43725577	35000000	37344337	45000000	48437295	20000000	18136928
<b>Total Amount</b>	<b>686412000</b>	<b>645151756</b>	<b>639720000</b>	<b>641073926</b>	<b>560840000</b>	<b>559937295</b>	<b>543202000</b>	<b>528576681</b>

**E3: Budget Allocation, Utilization, and Public Accounting at Program Specific Level**

**Table No.E3.1:** Budget and Actual Expenditure incurred at Programme Level

ITEM	Budgeted in CFY	Actual expenses in CFY (till Feb 2025)	Budgeted in 2023-24	Actual expenses in 2023-24	Budgeted in 2022-23	Actual expenses in 2022-23	Budgeted in 2021-22	Actual expenses in 2021-22
Laboratory Equipment	500000	566328	500000	953164	2500000	1302975	100000 0	841316
Software	2000000	1869826	2000000	1954699	1500000	2251247	150000 0	125792 5
SDGs	2000000	2125467	2000000	2082687	1500000	1642352	150000 0	140497 5
Support for faculty development	500000	121943	500000	89051	200000	113000	200000	88680
R&D	500000	495898	500000	413069	300000	326629	300000	290369
Industrial training, Industry Expert, Internship	2000000	1120207	2000000	1827796	1000000	1068439	100000 0	624977
Miscellaneous Expenses	4500000	4565439	4500000	4136900	5000000	5634275	200000 0	216635 5
<b>TOTAL AMOUNT</b>	<b>12000000</b>	<b>10865108</b>	<b>12000000</b>	<b>11457366</b>	<b>12000000</b>	<b>12338917</b>	<b>750000 0</b>	<b>667459 7</b>