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: B.E. - Electrical and Electronics   Engineering

A1:   Name of the Institute: -

SRI SAI RAM ENGINEERING COLLEGE

Year of Establishment: 1995   Location of the Institute: SAI LEO NAGAR, POONTHANDALAM VILLAGE, DHARKAST POST, WEST TAMBARAM, CHENNAI – 600 044, TAMIL NADU

A2:   Institute Address: -

City	: CHENNAI	State	: TAMIL NADU
Pin Code	: 600 044	Website	: https://sairam.edu.in/
E-mail	: sairam@sairam.edu.in	Phone No (with STD Code): 044 2251 2222	

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

Name of the University : ANNA UNIVERSITY	City	: CHENNAI
State : TAMIL NADU	Pin Code: 600 025	

A4:   Type of the Institution: - (Tick the applicable choice)

Institute of National Importance		Deemed University	
University		Autonomous	✓
Non-Autonomous (Affiliated)		Any other (Please specify) *	

Provide Details: _____

A5:   Ownership Status: - (Tick the applicable choice)

Central Government		State Government	
Government Aided		Self-financing	✓
Any Other (Please specify) *			

Provide Details:

A6: **Details of all Programs being Offered by the Institution: -**

❖ No. of UG programs: <u>14 & 1 M.TECH. (CSE) – 5 YEARS INTEGRATED</u>

❖ No. of PG programs: <u>9</u>

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

S. No.	Level of program (UG/PG)	Name of the program	Year of Start	Year of close*	Name of the Department
1	UG	B.E. - Mechanical Engineering	1995	-	Mechanical Engineering
2	UG	B.E. - Electronics and Communication Engineering	1995	-	Electronics and Communication Engineering
3	UG	B.E.- Electrical and Electronics Engineering	1995	-	Electrical and Electronics Engineering
4	UG	B.E. -Computer Science and Engineering	1998	-	Computer Science and Engineering
5	UG	B.Tech. - Information Technology	1999	-	Information Technology
6	UG	B.E. - Electronics and Instrumentation Engineering	2007	-	Electronics and Instrumentation Engineering
7	UG	B.E. - Civil Engineering	2007	-	Civil Engineering
8	UG	B.Tech. - Computer Science and Business System	2020	-	Computer Science and Business System
9	UG	B.Tech. - Artificial Intelligence and Data Science	2020	-	Artificial Intelligence and Data Science
10	UG	B.E. - Computer Science and Engineering (Artificial Intelligence and Machine Learning)	2022	-	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
11	UG	B.E.- Computer Science and Engineering (Internet of Things)	2022	-	Computer Science and Engineering (Internet of Things)
12	UG	B.E. - Computer Science and Engineering (Cyber Security)	2024	-	Computer Science and Engineering (Cyber Security)
13	UG	B.E. - Mechatronics Engineering	2025	-	Mechatronics Engineering
14	UG	B.E. - Computer and Communication Engineering	2025	-	Computer and Communication Engineering
15	Integrated	M.Tech. - Computer Science and Engineering (5 years Integrated)	2021	-	Computer Science and Engineering (5 years Integrated)
16	UG	B.E. - Instrumentation & Control Engg. (Name Change in the 2024 -25) as Electronic Instrumentation and Control Engineering	1998	2025	Electronic Instrumentation and Control Engineering
17	UG	B.E. - Mechanical and Automation Engineering	2021	2025	Mechanical Automation and Engineering
18	PG	M.E. – CAD/CAM	2009	-	Mechanical Engineering
19	PG	M.E.-Embedded Systems Technologies	2010	-	Electronics and Communication Engineering

S. No.	Level of program (UG/PG)	Name of the program	Year of Start	Year of close*	Name of the Department
20	PG	M.E. – Communication Systems	2009	-	Electronics and Communication Engineering
21	PG	M.E. – Computer Science and Engineering	2011	-	Computer Science and Engineering
22	PG	M.E. – Computer Science and Engineering (Networks)	2007	-	Information Technology
23	PG	M.Tech – Defence Technology	2022	-	Defence Technology
24	PG	M.E. – BiG Data Analytics	2025	-	Computer Science and Engineering
25	PG	M.E. - Industrial Safety Engineering	2025	-	Mechanical Engineering
26	PG	M.E. - Power Electronics and Drives	2010	-	Electrical and Electronics Engineering

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

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

Cluster ID.	Name of the Department	Name of the Program
4	B.E. – MECHANICAL ENGINEERING	B.E. – MECHANICAL ENGINEERING
2	B.E. – ELECTRONICS AND INSTRUMENTATION ENGINEERING	B.E. – ELECTRONICS AND INSTRUMENTATION ENGINEERING
1	B.E. – COMPUTER SCIENCE AND ENGINEERING	B.E. – COMPUTER SCIENCE AND ENGINEERING
3	B.E. – ELECTRICAL AND ELECTRONICS ENGINEERING	B.E. – ELECTRICAL AND ELECTRONICS ENGINEERING
1	B.TECH. – INFORMATION TECHNOLOGY	B.TECH. – INFORMATION TECHNOLOGY

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)
4	B.E. – MECHANICAL ENGINEERING	B.E. – MECHANICAL & AUTOMATION ENGINEERING
2	B.E. – ELECTRONICS AND INSTRUMENTATION ENGINEERING	B.E. – ELECTRONICS AND COMMUNICATION ENGINEERING B.E. – INSTRUMENTATION & CONTROL ENGINEERING (EICE) M.E.– EMBEDDED SYSTEMS M.E. – COMMUNICATION SYSTEMS
1	B.E. – COMPUTER SCIENCE AND ENGINEERING	B.TECH. – INFORMATION TECHNOLOGY B.TECH. – COMPUTER SCIENCE AND BUSINESS SYSTEM B.TECH. – ARTIFICIAL INTELLIGENCE AND DATA SCIENCE M.E. – COMPUTER SCIENCE ANDENGINEERING (NETWORKS)
3	B.E. – ELECTRICAL AND ELECTRONICS ENGINEERING	-
1	B.TECH. – INFORMATION TECHNOLOGY	B.TECH. - COMPUTER SCIENCE AND BUSINESS SYSTEM B.TECH. – ARTIFICIAL INTELLIGENCE AND DATA SCIENCE B.E. – COMPUTER SCIENCE AND ENGINEERING M.E. - COMPUTER SCIENCE AND ENGINEERING

PART-B: Program information
(Data to be filled in for the program applied for Accreditation)

B1: **Provide the Required 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 Approval	Accreditation Status*	No. of times program
1.	Electrical and Electronics Engineering	1995	60	Yes, 120	2008	F.No.730-52-262 (E)/ET/97, Dt:17th July 2008	Granted accreditation for 3 years for the period (2022-2025)	4

* 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 R Azhagumurugan**

B. Nature of appointment: (Tick the applicable choice)

- ❖ **Regular** ✓
- ❖ **Contract** ☐
- ❖ **Ad 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	CAY 2024-25	CAYm1 2023-24	CAYm2 2022-23	CAYm3 2021-22	CAYm4 (LYG) 2020-21	CAYm5 (LYGm1) 2019-20	CAYm6 (LYGm2) 2018-19
N= Sanctioned intake of the program (as per AICTE /Competent authority)	120	120	120	120	120	120	120
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	120	117	120	113	85	94	87
N2= Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	NA	8	7	7	18	13	07
N3= Separate division if any	00	00	00	00	00	00	00
N4= Total no. of students admitted in the 1st year via all supernumerary quotas	01	00	02	00	00	00	00
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	121	125	129	120	103	107	94

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.

Item (Students enrolled in the First Year on average over 3 academic years (CAY, CAYm1, and CAYm2))	CAY 2024-25	CAYm1 2023-24	CAYm2 2022-23
N= Sanctioned intake of the program in the 1st year (as per AICTE/Competent authority)	120	120	120
N1= Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	120	117	120

6

Item			
N4= Total no. of students admitted in the 1st year via all supernumerary quotas	01	00	02
Enrolment Ratio (ER)= (N1+N4)/N	1.00	0.97	1.01
Average ER= (ER_1+ ER_2+ ER_3)/3	**0.99**		

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 2020-21	LYGm1 2019-20	LYGm2 2018-19
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).	102	107	90
B=No. of students who graduated from the program in the stipulated course duration	97	106	90
Success Rate (SR)= (B/A)*100	95.09	99.06	100
Average SR of three batches ((SR_1+SR_2+ SR_3)/3)	**98.05**		

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.B5.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2) of Table No.B3.1.

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
X= (Mean of 1st 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 1st year/10)	7.96	7.88	8.108
Y= Total no. of successful students	104	96	80
Z = Total no. of students appeared in the examination	117	122	113
API = X* (Y/Z)	7.075	6.20	5.74
Average API = (API_1 + API_2 + API_3)/3	**6.33**		

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)	8.09	8.10	8.24
Y= Total no. of successful students	117	99	78
Z =Total no. of students appeared in the examination	129	120	102
API = X* (Y/Z)	7.33	6.68	6.30
Average API = (API_1 + API_2 + API_3)/3	**6.77**		

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	8.02	8.23	8.32
Y= Total no. of successful students	109	88	107
Z= Total no. of students appeared in the examination	120	102	107
API = X* (Y/Z)	7.28	7.10	8.32
Average API = (API_1 + API_2 + API_3)/3	**7.56**		

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	102	107	90
X= No. of students placed	64	80	79
Y= No. of students admitted to higher studies	5	8	6
Z= No. of students taking up entrepreneurship	1	4	2
X + Y + Z =	70	92	87
Placement Index (P) = (((X + Y + Z)/FS) * 100)	68.62	85.98	96.66
Average placement index = (P_1 + P_2 + P_3)/3	**83.75**		

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. B9.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2) of Table No.B3.1.

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

CAY 2024-2025													
S.No	Name of the Faculty	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	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
1	Dr.R.Azhagumurugan	Ph.D	Anna University	Applied Electronics Information & Communication	10.06.2002	22.8	Lecturer	Prof. & HOD	01.06.2019	Regular	Nil	Y	No
2	Dr.T.Porselvi	Ph.D	Anna University	Power Electronics & Drives Electrical Engineering	09.08.2000	24.6	Lecturer	Prof.	01.06.2016	Regular	Nil	Y	No
3	Dr.C.Nayanatara	Ph.D	Anna University	Power Systems Electrical Engineering	21.06.2007	17.7	Lecturer	Prof.	01.06.2019	Regular	Nil	Y	No
4	Dr Venkatesan G	Ph.D	Anna University	Power Electronics & Drives Electrical Engineering	15.07.2022	2.7	Asso.Prof	Prof.	01.03.2023	Regular	Nil	Y	No
5	Dr.A.Sanjeevi Gandhi	Ph.D	Anna University	Control & Instrumentation Electrical Engineering	02.08.2021	3.6	Asso.Prof	Asso. Prof	-	Regular	Nil	Y	No
6	Dr.K.Suresh	Ph.D	Annamalai University	Power Systems Electrical Engineering	02.08.2021	3.6	Asst. prof	Asso. Prof	01.03.2022	Regular	Nil	Y	No

7	Dr.P.Sharmila	Ph.D	Anna Univ.	High Voltage Engineering Electrical Engineering	21.06.2007	17.8	Lecturer	Asso. Prof	1.08.2022	Regular	Nil	Y	No
8	Dr..P.ShanmugaPriya	Ph.D	Anna Univ	Power Electronics & Drives Electrical Engineering	13.06.2008	16.8	Lecturer	Asso. Prof	1.08.2022	Regular	Nil	Y	No
9.	Mr. R.Sivaprasad	M.E	Anna University	Energy Engineering	03.06.2009	15.8	Lecturer	Asso. Prof.	02.06.2014	Regular	Nil	Y	No
10	Dr.Saswati Kumari Behera	Ph.D	Anna University	Power Systems Electrical Engineering	01.06.2010	14.8	Sr. Lecturer	Asso. Prof	11.06.2018	Regular	Nil	Y	No
11	Dr. L. Kurinjimalar	Ph.D	Anna University	Power Electronics & Drives Electrical Engineering	9.7.2010	14.7	Lecturer	Asso. Prof	1.03.2023	Regular	Nil	Y	No
12	Dr.P.Rajakumar	Ph.D	Anna University	Power Electronics & Drives Electrical Engineering	21.01.2011	14	Sr. Lecturer	Asso. Prof	02.06.2014	Regular	Nil	Y	No
13	Dr.C.Priya	Ph.D	Anna University	Control & Instrumentation Electrical Engineering	5.06.2017	7.8	Asst. Prof	Asso. Prof	01.06.2019	Regular	Nil	Y	No
14	Dr.K.Prathibanandhi	Ph.D	Anna University	Power Electronics & Drives Electrical Engineering	02.08.2021	3.6	Asst. Prof	Asso. Prof	01.08.2022	Regular	Nil	Y	No
15	Ms.M.Hemalatha	M.E	Anna University	Applied Electronics	08.06.2015	9.8	Asst. Prof	-	-	Regular	Nil	Y	No
16	Mr.D.Arulselvam	M.Tech.	SRM University	Power Electronics & Drives	20.06.2011	13.7	Lecturer	Asst. Prof	-	Regular	Nil	Y	No
17	Ms.J.Shalini Priya	M.E.	Anna University	Power Electronics & Drives	11.07.2011	13.7	Asst. prof	Asst. Prof	-	Regular	Nil	Y	No
18	Ms.V.Malini	M.E.	Anna University	Power Systems	31.05.2013	11.8	Asst. prof.	Asst. Prof	-	Regular	Nil	Y	No
19	Mr.S.Mohan	M.E.	Annamalai University	Power Systems	02.06.2014	10.8	Asst. Prof	Asst. Prof	-	Regular	Nil	Y	No

20	Mr.K.Rajkumar	M.E.	Anna University, Tiruchirapalli	Applied Electronics Information & Communication	15.06.2015	9.7	Asst. prof	Asst. Prof	-	Regular	Nil	Y	No
21.	Mr.C.Jeeva	M.Tech.	Swami Vivekanand Subharti Univ.	Power Electronics &Drives Electrical Engineering	07.02.2020	5	Asst. Prof.	Asst. Prof.	-	Regular	Nil	Y	No
22	Ms.V.Chithra	M.E.	Anna University	Embedded System Technologies	06.08.2020	4.6	Asst. Prof.	Asst. Prof	-	Regular	Nil	Y	No
23	Ms.R.Kothai	M.E.	Anna University, Coimbatore	Power Electronics & Drives	06.08.2020	4.6	Asst. Prof.	Asst. Prof	-	Regular	Nil	Y	No
24	Mr.Barath Kanna.C	M.Tech.	B.S.Abdur Rahman Univ.	Electronics and Instrumentation	13.6.2022	2.8	Asst. Prof.	Asst. Prof	-	Regular	Nil	Y	No
25	Ms. F Punnya Priya	M.E	Sathyabama Institute of Science and Technology	Power Electronics and Industrial Drives	22.6.2023	1.7	Asst. Prof.	Asst. Prof	-	Regular	Nil	Y	No
26	Mr. M. Karthikeyan	M.E.	Anna University	Applied Electronics	08.08.2019	5.6	Asst. Prof	Asst. Prof	-	Regular	Nil	Y	No
27	Dr Porkumaran K	Ph.D	Bharathiyar Univeristy	Control Systems Electrical Engineering	01.07.2021	2.11	Professor	Principal &Professor	-	Regular	Nil	N	10.06.2024
28	Dr.B.Meenakshi	Ph.D	Anna University	Applied Electronics Information & Communication	17.03.2006	18.2	Sr. lecturer	Prof.	01.12.2013	Regular	Nil	N	31.5.2024
29.	Dr. P.Sivaperumal	Ph.D	SRM Institute of Science and Technology	Power Electronics & Drives Electrical Engineering	1.06.2023	1	Asst. Prof	Asst. Prof	-	Regular	Nil	N	31.5.2024

S.No	Name of the Faculty	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	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
	CAY m1 2023-2024												
1.	Dr Porkumaran K	Ph.D	Bharathiyar Univeristy	Control Systems Electrical Engineering	01.07.2021	2.11	Professor	Principal & Professor	-	Regular	Nil	Y	No
2.	Dr.R.Azhagumurugan	Ph.D	Anna University	Applied Electronics Information & Communication	10.06.2002	21.8	Lecturer	Prof. & HOD	01.06.2019	Regular	Nil	Y	No
3.	Dr.B.Meenakshi	Ph.D	Anna University	Applied Electronics Information & Communication	17.03.2006	18.2	Sr. lecturer	Prof.	01.12.2013	Regular	Nil	Y	No
4.	Dr.T.Porselvi	Ph.D	Anna University	Power Electronics & Drives Electrical Engineering	09.08.2000	23.6	Lecturer	Prof.	01.06.2016	Regular	Nil	Y	No
5.	Dr. C. Nayanthara	Ph.D	Anna University	Power Systems Electrical Engineering	21.06.2007	16.7	Lecturer	Prof.	01.06.2019	Regular	Nil	Y	No
6.	Dr.Venkatesan.G	Ph.D	Anna University	Power Electronics & Drives Electrical Engineering	15.07..2022	1.7	Asso.Prof	Prof.	01.03.2023	Regular	Nil	Y	No
7.	Mr.P.Rajakumar	M.E.	Anna University	Power Electronics & Drives	21.01.2011	13	Sr. Lecturer	Asso. Prof	02.06.2014	Regular	Nil	Y	No

No.	Name		University		Date				Date				
8.	Mr.R.Sivaprasad	M.E.	Anna University	Energy Engineering	03.06.2009	14.8	Lecturer	Asso. Prof	02.06.2014	Regular	Nil	Y	No
9.	Dr.Saswati Kumari Behera	Ph.D	Anna University	Power Systems Electrical Engineering	01.06.2010	13.8	Sr. Lecturer	Asso. Prof	11.06.2018	Regular	Nil	Y	No
10.	Dr.C.Priya	Ph.D	Anna University	Control & Instrumentation Electrical Engineering	5.06.2017	6.8	Asst. Prof	Asso. Prof	01.06.2019	Regular	Nil	Y	No
11.	Dr.A.Sanjeevi Gandhi	Ph.D	Anna University	Control & Instrumentation Electrical Engineering	02.08.2021	2.6	Asso.Prof	Asso. Prof	-	Regular	Nil	Y	No
12.	Dr.K.Suresh	Ph.D	Annamalai University	Power Systems Electrical Engineering	02.08.2021	2.6	Asst. prof	Asso. Prof	01.03.2022	Regular	Nil	Y	No
13.	Dr.P.Sharmila	Ph.D	Anna Univ.	High Voltage Engineering Electrical Engineering	21.06.2007	16.8	Lecturer	Asso. Prof	1.08.2022	Regular	Nil	Y	No
14.	Dr.P.ShanmugaPriya	Ph.D	Anna Univ	Power Electronics & Drives Electrical Engineering	13.06.2008	15.8	Lecturer	Asso. Prof	1.08.2022	Regular	Nil	Y	No
15.	Dr.K.Prathibanandhi	Ph.D	Anna University	Power Electronics & Drives Electrical Engineering	02.08.2021	2.6	Asst. Prof	Asso. Prof	1.08.2022	Regular	Nil	Y	No
16.	Dr.L.Kurinjimalar	Ph.D	Anna University	Power Electronics & Drives Electrical Engineering	9.7.2010	13.7	Lecturer	Asso. Prof	1.03.2023	Regular	Nil	Y	No
17.	Ms.M.Hemalatha	M.E	Anna University	Applied Electronics	08.06.2015	8.8	Asst. Prof	Asst. Prof.	---	Regular	Nil	Y	No
18.	Mr.D.Arulselvam	M.Tech.	SRM University	Power Electronics & Drives	20.06.2011	12.7	Lecturer	Asst. Prof	--	Regular	Nil	Y	No

19.	Ms.J.Shalini Priya	M.E.	Anna University	Power Electronics & Drives	11.07.2011	12.7	Asst. prof	Asst. Prof	-	Regular	Nil	Y	No
20.	Ms.V.Malini	M.E.	Anna University	Power Systems	31.05.2013	10.8	Asst. prof.	Asst. Prof	-	Regular	Nil	Y	No
21.	Mr.S.Mohan	M.E.	Annamalai University	Power Systems	02.06.2014	9.8	Asst. Prof	Asst. Prof	-	Regular	Nil	Y	No
22.	Mr.K.Rajkumar	M.E.	Anna University, Tiruchirapalli	Applied Electronics Information & Communication	15.06.2015	8.7	Asst. prof	Asst. Prof	-	Regular	Nil	Y	No
23.	Mr.C.Jeeva	M.Tech	Swami Vivekanand Subharti Univ.	Power Electronics &Drives Electrical Engineering	07.02.2020	4	Asst. Prof	Asst. Prof	-	Regular	Nil	Y	No
24.	Ms.V.Chithra	M.E.	Anna University	Embedded System Technologies	06.08.2020	3.6	Asst. Prof.	Asst. Prof	-	Regular	Nil	Y	No
25.	Ms.R.Kothai	M.E.	Anna University, Coimbatore	Power Electronics & Drives	06.08.2020	3.6	Asst. Prof.	Asst. Prof	-	Regular	Nil	Y	No
26.	Mr.Barath Kanna.C	M.Tech.	B.S.Abdur Rahman Univ.	Electronics and Instrumentation	13.6.2022	1.8	Asst. Prof.	Asst. Prof	-	Regular	Nil	Y	No
27.	Dr P Sivaperumal	Ph.D	SRM Institute of Science and Technology	Power Electronics & Drives Electrical Engineering	1.06.2023	1	Asst. Prof	Asst. Prof	-	Regular	Nil	Y	No
28.	Ms. F Punnya Priya	M.E	Sathyabama Institute of Science and Technology	Power Electronics and Industrial Drives	22.6.2023	0.7	Asst. Prof.	Asst. Prof	-	Regular	Nil	Y	No
29.	Mr. M. Karthikeyan	M.E.	Anna University	Applied Electronics	08.08.2019	4.6	Asst. Prof	Asst. Prof	-	Regular	Nil	Y	No

S.No	Name of the Faculty	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	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
					CAY m1 2022-2023								
1.	Dr Porkumaran K	Ph.D	BharathiyarUniveristy	Control Systems Electrical Engineering	01.07.2021	1.11	Professor	Principal & Professor	-	Regular	Nil	Y	Nil
2.	Dr.R.Azhagumurugan	Ph.D	Anna University	Applied Electronics Information & Communication	10.06.2002	20.8	Lecturer	Prof. & HOD	01.06.2019	Regular	Nil	Y	Nil
3.	Dr.B.Meenakshi	Ph.D	Anna University	Applied Electronics Information & Communication	17.03.2006	17.2	Sr. lecturer	Prof.	01.12.2013	Regular	Nil	Y	Nil
4.	Dr.T.Porselvi	Ph.D	Anna University	Power Electronics & Drives Electrical Engineering	09.08.2000	22.6	Lecturer	Prof.	01.06.2016	Regular	Nil	Y	Nil
5.	Dr.C.Nayanatara	Ph.D	Anna University	Power Systems Electrical Engineering	21.06.2007	15.7	Lecturer	Prof.	01.06.2019	Regular	Nil	Y	Nil
6.	Mr.P.Rajakumar	M.E.	Anna University	Power Electronics & Drives Electrical Engineering	21.01.2011	12	Sr. Lecturer	Asso. Prof	02.06.2014	Regular	Nil	Y	Nil

S.No	Name	Qual.	University	Specialization	Date of Joining	Exp.	Designation	Present Designation	Date	Regular			
7.	Mr.R.Sivaprasad	M.E.	Anna University	Energy Engineering Electrical Engineering	03.06.2009	13.8	Lecturer	Asso. Prof	02.06.2014	Regular	Nil	Y	Nil
8.	Dr.Saswati Kumari Behera	Ph.D	Anna University	Power Systems Electrical Engineering	01.06.2010	12.8	Sr. Lecturer	Asso. Prof	11.06.2018	Regular	Nil	Y	Nil
9.	Dr.C.Priya	Ph.D	Anna University	Control & Instrumentation Electrical Engineering	5.06.2017	5.8	Asst. Prof	Asso. Prof	01.06.2019	Regular	Nil	Y	Nil
10.	Dr.A.Sanjeevi Gandhi	Ph.D	Anna University	Control & Instrumentation Electrical Engineering	02.08.2021	1.6	Asso.Prof	Asso. Prof	-	Regular	Nil	Y	Nil
11.	Dr.K.Suresh	Ph.D	Annamalai University	Power Systems Electrical Engineering	02.08.2021	1.6	Asst. prof	Asso. Prof	01.03.2022	Regular	Nil	Y	Nil
12.	Ms.P.Sharmila	M.E.	Anna Univ.	High Voltage Engineering	21.06.2007	15.8	Lecturer	Asso. Prof	01.08.2022	Regular	Nil	Y	Nil
13.	Dr.P.ShanmugaPriya	Ph.D	Anna Univ	Power Electronics & Drives Electrical Engineering	13.06.2008	14.8	Lecturer	Asso. Prof	01.08.2022	Regular	Nil	Y	Nil
14.	Dr.K.Prathibanandhi	Ph.D	Anna University	Power Electronics & Drives Electrical Engineering	02.08.2021	1.6	Asst. Prof	Asso. Prof	01.08.2022	Regular	Nil	Y	Nil
15	Dr Venkatesan G	Ph.D	Anna University	Power Electronics & Drives Electrical Engineering	15.07..2022	0.7	Asso.Prof	Asso. Prof	-	Regular	Nil	Y	Nil
16	Dr. L. Kurinjimalar	Ph.D.	Anna University	Power Electronics & Drives	9.07.2010	12.7	Lecturer	Asso. Prof	01.03.2023	Regular	Nil	Y	Nil
17	Ms.M.Hemalatha	M.E	Anna University	Applied Electronics	08.06.2015	7.8	Asst. Prof	Asst. Prof.	---	Regular	Nil	Y	Nil

No.	Name	Qualification	University	Specialization	Date	Exp.	Designation	Designation	-	Type			
18.	Mr.D.Arulselvam	M.Tech.	SRM University	Power Electronics & Drives	20.06.2011	11.7	Lecturer	Asst. Prof	-	Regular	Nil	Y	Nil
19.	Ms.J.Shalini Priya	M.E.	Anna University	Power Electronics & Drives	11.07.2011	11.7	Asst. prof	Asst. Prof	-	Regular	Nil	Y	Nil
20.	Ms.V.Malini	M.E.	Anna University	Power Systems	31.05.2013	9.8	Asst. prof.	Asst. Prof	-	Regular	Nil	Y	Nil
21.	Mr.S.Mohan	M.E.	Annamalai University	Power Systems	02.06.2014	8.8	Asst. Prof	Asst. Prof	-	Regular	Nil	Y	Nil
22.	Mr.K.Rajkumar	M.E.	Anna University, Tiruchirapalli	Applied Electronics Information & Communication	15.06.2015	7.7	Asst. prof	Asst. Prof	-	Regular	Nil	Y	Nil
23.	Mr.C.Jeeva	M.Tech	Swami Vivekanand Subharti Univ.	Power Electronics &Drives Electrical Engineering	07.02.2020	3	Asst. Prof	Asst. Prof	-	Regular	Nil	Y	Nil
24.	Ms.V.Chithra	M.E.	Anna University	Embedded System Technologies	06.08.2020	2.6	Asst. Prof.	Asst. Prof	-	Regular	Nil	Y	Nil
25.	Ms.R.Kothai	M.E.	Anna University, Coimbatore	Power Electronics & Drives	06.08.2020	2.6	Asst. Prof.	Asst. Prof	-	Regular	Nil	Y	Nil
26.	Mr.Barath Kanna.C	M.Tech.	B.S.Abdur Rahman Univ.	Electronics and Instrumentation	13.6.2022	0.8	Asst. Prof.	Asst. Prof	-	Regular	Nil	Y	Nil
27.	Mr. M. Karthikeyan	M.E.	Anna University	Applied Electronics	08.08.2019	3.6	Asst. Prof	Asst. Prof	-	Regular	Nil	Y	Nil
28	Ms.N.Anitha	M.E.	Anna University	Power Systems Engineering	06.03.2009	13.4	Asst. prof.	Asst. Prof	-	Regular	Nil	N	30.07.2022

| 29. | Mr.M.Rajasekaran | M.Tech | Anna University, Tiruchirapalli | Power Systems | 1.06.2013 | 9.1 | Asst. Prof. | Asst. Prof | - | Regular | Nil | N | 30.06.2022 |

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

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)).

Table No.C2.1 : Student -faculty ratio

Year	CAY(2024-25)	CAYm1(2023-24)	CAYm2(2022-23)
UG_1.B	128 (120+8)	127 (120+7)	127 (120+7)
UG_1.C	127 (120+7)	127 (120+7)	132 (120+12)
UG_1.D	127 (120+7)	132 (120+12)	132 (120+12)
UG_1	UG1.B+UG1.C+UG1.D= 382	UG1.B+UG1.C+UG1.D= 386	UG1.B+UG1.C+UG1.D= 391
PG_1.A	6	6	12
PG_1.B	6	12	18

PG_1	PG1.A +PG1.B=12	PG1.A +PG1.B=18	PG1.A +PG1.B=30
DS = Total No.of Students in all UG and PG programs in the Department	DS1= UG1+PG1 =394	DS2= UG1+PG1 = 404	DS3= UG1+PG1 = 421
AS = Total No.of Students in all UG and PG programs in the Allied Departments	----	⎯⎯	⎯⎯
S=Total No.of Students in the Department (DS) and Allied Departments (AS)	**S1= 394**	**S2=404**	**S3=421**
DF= Total no. of faculty members in the Department	26	29	27
AF= Total no. of faculty members in the allied Departments	⎯	⎯	⎯
F=Total No.of Faculty members in the Department (DF) and allied Departments (AF)	F1=26	F2 =29	F3 = 27
FF=The faculty members in F who have a 100 % teaching load in the first-year courses	FF1=0	FF2=0	FF3=0
Student Faculty Ratio(SFR)= s/(F-FF)	SFR1=S1/F1= 394/26=15.15	SFR2=S2/F2= 404 / 29 =13.93	SFR3= S3/F3=421/27 = 15.59
Average SFR for 3 Years	SFR=(SFR1+SFR2+SFR3)/3 =(15.15+13.93+15.59)/3 = 14.89		

C3:Faculty Qualification

❖ Faculty Qualification Index (FQI)=2.5 x [(10X +4Y) / RF)] where

➢ X = No.of faculty members with Ph.D. degree or equivalent as per AICTE / UGC norms.

➢ Y=No.of faculty 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 document : (RF = S/20)

Table No. C3.1: Faculty Qualification

Year	X	Y	RF	FQI=2.5x[(10X +4Y)/RF)]
CAY (24-25)	13	13	394 /20 =19.7=20	22.75
CAYm1 (23-24)	15	14	404 / 20 =20.2=20	25.75
CAYm2 (22-23)	11	16	421 / 20 = 21.05=21	20.71
Average Assessment				(22.75+25.75+20.71) / 3 = **23.07**

C4: Faculty Cadre Proportion

Faculty cadre proportion is 1(RF1):2(RF2):6(RF3)

➢ RF1: Number of Professors required = 1/9 x Number of Faculty required to comply with 20:1 Student- Faculty ratio based on no. of students (S) as per C2 of this document

➢ RF2: Number of Associate Professors required = 2/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this document

➢ RF3: Number of Assistant Professors required = 6/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this document

Table C4.1: Faculty Cadre Proportion Details

Year	Professors		Associate Professors		Assistant Professors	
	Required (RF1)	Available (AF1)	Required (RF2)	Available (AF2)	Required (RF3)	Available (AF3)
CAY (24-25)	2	4	4	9	13	13
CAYm1(23-24)	2	6	4	8	13	15
CAYm2 (22-23)	2	5	4	6	14	16
Average Numbers	RF1=2	AF1=5	RF2=4	AF2= 7	RF3=13	AF3=14

C5: Visiting / Adjunct Faculty / Professor of Practice

Table C5..1: List of Visiting / Adjunct faculty / Professor of practice and their teaching and practice loads.

S.No.	Name of the person	Designation and Organization	Name of the course	No. of hours handled
CAY m1 (2023-2024)				
1	Mr. M. Karthikeyan	Assistant Divisional Engineer, Electrical Division, TamilNadu Electricity Board.	**EVEN** 20EEPJ801 - Project Phase - II	24
			Content Beyond the Syllabus 20EEEL802 - Smart Grid Technologies	2
			ODD 20EETE501 - Live-in-Lab - III	24
			Content Beyond the Syllabus 20EEPC701 - Distributed Generation and Micro grid	2

					52
			Total no. of hours:		

CAY m2 2022-2023					
1	Mr. M. Karthikeyan	Assistant Divisional Engineer, Electrical Division, TamilNadu Electricity Board.	**EVEN** EE8811 - Project Work		24
			<u>Content Beyond the Syllabus</u> 20EEPC602 - Power System Operation and Control		2
			ODD 20EETE501 - Live-in-Lab -III		24
			<u>Content Beyond the Syllabus</u> EE8702 - Power system Operation and Control		2
Total no. of hours:					52
CAY m3 2021-2022					
1	Mr. M. Karthikeyan	Assistant Divisional Engineer, Electrical Division, TamilNadu Electricity Board.	**EVEN** EE8811 - Project Work		36
			ODD 20EETE501 - Live-in-Lab -III		2 4
Total no. of hours:					**60**

C6:Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	CAYm1 2023-24	CAYm2 2022-23	CAYm3 2021-22
1	No. of peer reviewed journal papers published	12	8	5
2	No. of peer reviewed conference papers published	51	84	33
3	No. of books/book chapters published	8	5	4

C7:Sponsored Research Project

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

S.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 (Lacs)
				CAYm1 2023-2024			
1	Dr.A.Sanjeevi Gandhi	Mr.C.Jeeva Dr.K.Porkumaran	EEE	Autonomous operation of starting running shutting down of diesel alternator suitable for charging Li-ion batteries	DIO Agreement no. CY 700247	18 months	22.26
						Amount received(Rs.)	**22.26**

				CAYm2 2022-2023			
1	Dr.K.Porkumaran	Dr.A.Sanjeevi Gandhi	EEE	Design and development of Intelligent lot based adaptive fuzzy-pl cascade Controller for regenerative braking in electric Vehicles	UNIVERSITI TEKNOLOGI PETRONAS	2 years	3.539
2	Dr.K.Prathibana ndhi	-	EEE	Machine overheating detection using microcontroller in electric vehicles	TNSCST	6 months	0.075
3	Dr.A.Sanjeevi Gandhi	Dr.K.Porkumara n and Mr.C.Jeeva	EEE	Autonomous operation of starting running shutting down of diesel alternator suitable for charging Li-ion batteries	DIO Agreement no. CY 700247	18 months	4.45
						Amount received(Rs.)	8.064
				CAYm3 2021-2022			
1	Dr.C.Yaashuwant h	Dr.V.Vidhya K.Pradhibanan dhi	EEE	Design and development of enhanced secure video communication system for video sensor network"	ISRO ISRO/RES/3/8 78/21-22	2 yea rs	17.54
						Amount received(Rs.)	17.54
				Total Amount(Lacs)ReceivedforthePast3Years			47.864

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

S.No	PI name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project title*	Nameof the Funding agency	Duration of the project	Amount (Lacs)
CAYm1 2023-2024							
1.	Dr.R.Azhagumurugan	-	EEE	Basic Electrical engineering Std XII	Tamil nadu text book writing	12 months	0.50
2.	Dr.R.Azhagumurugan	-	EEE	Battery electric vehicle charging	Genik Technologies private limited	6 months	0.50
3.	Dr.C.Priya	–	EEE	A composite electrode practice mode	Genik Technologies private limited	8 months	0.15
4.	Ms. Chitra V	-	EEE	A composite electrode practice mode	Genik Technologies private limited	8 months	0.10
5.	Dr. K. Suresh	-	EEE	Construction of AI application on power systems course content	Clear Code Consulting Services LLP	13 months	0.15
6.	Dr. G. Venkatesan	-	EEE	LOPF with coupling to heating sector	Genik Technologies private limited	7 months	0.20
					Amount received(Rs.)		1.6
CAYm2 2022-2023							
1.	Dr.R.Azhagumurugan	-	EEE	Basic Electrical engineering Std XII	Tamil nadu text book writing	12 months	0.50
2.	Mr. P. Raja Kumar	-	EEE	Robotics STEM models	Clear Code Consulting Services LLP	6 months	0.28
					Amount received(Rs.)		0.78

				CAYm2 2021-2022				
1.	Dr. B. Meenakshi	-		EEE	Power quality improvement using PWM active filters	NIN Energy India Private Limited	6 months	0.20
2.	Dr.R.Azhagumuru gan	-		EEE	Basic Electrical engineering Std XII	Tamil nadu text book writing	12 months	0.50
						Amount received(Rs.)		**0.70**
					Total amount(Lacs) received for the past 3 years)			**3.08**

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.No.	Faculty name	Project title/ Support for Activity	Duration	Amount (Lacs)	Amount Utilized (Lacs)	Outcomes of the project
			CAYm1 2023-2024			
1	Dr. R. Azhagumurugan	Development of oil control unit	3 months	0.185	0.185	Paper published
2	Dr. R. Azhagumurugan	Development of ecu for automobile	3 months	0.53	0.53	Paper published
3	Dr. R. Azhagumurugan	Development of 5000 liters bio gas plant from food waste	6 months	0.80	0.80	Product developed
4	Dr. R. Azhagumurugan	Development of portable bio gas plant from food waste	6 months	0.637	0.637	Product developed
5	Dr.A.Sanjeevi Gandhi, Dr.K.Porkumaran Mr.C.Jeeva	Autonomous operation of starting running shutting down of diesel alternator suitable for charging Li-ion batteries	18 months	26.73	26.73	Product developed
				Amount received(Rs.)		**28.88**

			CAYm2 2022-2023			
1	Mr. P. Rajakumar Dr .C. Nayanatara Ms. P. Shanmugapriya Mr. D. Arulselvam Mr. J. Harinarayanan	Prevention and intimation of accident zone location	Aug-2023	1.92	1.92	Paper published in Intelligent computing and control for engineering and business systems
2	Dr.A.Sanjeevi Gandhi, Dr.K.Porkumaran Mr.C.Jeeva	Autonomous operation of starting running shutting down of diesel alternator suitable for charging Li-ion batteries	18 months	13.36	13.36	Product developed
3	Dr. R. Azhagumurugan	Development of IoT monitoring and control of electrical appliances for power consumption	Feb-2023	0.088	0.088	Product developed
					Amount received(Rs.)	15.368
			CAYm3 2021-2022			
1	-	-	-	-	-	-
					Amount received (Rs.)	-
				Total amount(Lacs) received for the past 3 years		44.248

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.

S. No	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the Major equipment	Weekly Utilisation Status (All The Courses For Which The Lab Is Utilised)	Technical Manpower Support		
					Name Of The Technical Staff	Designation	Qualification
1.	**ENGINEERING PRACTICES LABORATORY**	5(30)	1.Single Phase Energy Meter 2.Auto transformer 3.AC/DC – Voltmeters 4.Single Phase Wattmeter 5.Fluorescent lamp 6.Necessary Quantities of Switches, fuses 7.Earth Tester 8.Resistive, inductive and capacitive loads 9.Regulated Power Supply: 0 – 15 V D.C 10.Function Generator (1 MHz) 11.Single Phase Energy Meter 12.Oscilloscope (20 MHz). 13.Digital Storage Oscilloscope (20 MHz) 14.AC/DC – Voltmeters 15.Single Phase Wattmeter 16.Decade Resistance Box, Decade Inductance Box, Decade Capacitance Box 17.Necessary Quantities of Resistors, Inductors, Capacitors of various capacities	**ODD SEM** **TOTAL UTILISATION- 90 %**	Mr. D. Rajesh	Lab Technician	DEEE, BCA
					Mr. T. Sivaraman	Lab Technician	DEEE
					Mr. V. Purshothaman,	Lab Technician	DEEE
				EVEN SEM **TOTAL UTILISATION- 100%**	Mr. D. Rajesh	Lab Technician	DEEE, BCA
					Mr. T. Sivaraman	Lab Technician	DEEE
					Mr. V. Purshothaman,	Lab Technician	DEEE,

2.	**ANALOG AND DIGITAL LAB & MICROPROCESSO R AND MICROCONTROLL ER LABORATORY**	5(30)	1.Semiconductor devices like Diode, Zener Diode, NPN Transistors, JFET, UJT, Photo diode, Photo Transistor 2. Resistors, Capacitors and inductors 3. Necessary digital IC 8 4. Function Generators 5. Regulated output Power Supply 5, ± 15V 6. CRO 7. Storage Oscilloscope 8. 8085 Microprocessor Trainer with Power Supply, 9. 8051 Micro Controller Trainer Kit with power supply, 10. 8255 Interface board 11. 8251 Interface board 12. 8259 Interface board 13. 8279 Keyboard / Display Interface board 14. 8254 timer counter, ADC and DAC card, 15. AC & DC motor with Controller, 16. Traffic Light Control System	**ODD SEM** **TOTAL UTILISATIO N-** **60%** **EVEN SEM** 10 %	Ms. R.Bhuvaneswari	Lab Technician	DECE
3.	**LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY**	5(30)	1.Dual (0-30V) variable Power Supply 2.CRO (30MHz) 3.Digital Multimeter 4.Function Generator (1MHz) 5.IC Tester (Analog) 6.Bread board	**ODD SEM TOTAL UTILISATIO N - 20%**	Mr. T. Sivaraman	Lab Technician	DEEE
4.	**RENEWABLE ENERGY LAB**	5(30)	1.Solar energy power system 2.Fuel energy system 3. PV Emulator 4. 30 MHz CRO 5. Digital Multimeter 6. Potentiometer 7. PV panels - 100W, 24V	**ODD SEM** **TOTAL UTILISATIO N –** **4**0%	Mr. D.Rajesh	Lab Technician	DEEE, BCA

5.	**ELECTRICAL MACHINES LABORATORY-I**	5(30)	1.DC Motor (Shunt, Series, Compound) 2.DC Generator (Shunt, Series, Compound) 3.Synchronous Induction Motor 4.Alternator 5.Three phase Slip Ring Induction Motor 6.Three phase Squirrel Cage Induction Motor 7.1 phase Squirrel Cage Induction Motor 8. 3phase Induction Generator Set 9. 3phase SlipRing Induction Generator 10. PowerFactor Meter, 11. Energy Meter 12. 3phase Alternator 13. 3 phase Synchronous Motor 14. 3 phase Induction Motors - Squirrel Cage, 15. 15.Slip Ring 1 phase Induction Motor 16. Inductive Load 17. 1 phase Auto Transformer 18. 3 phase Auto Transformer	**ODD SEM** **TOTAL UTILISATION–** 35% **EVEN SEM** **TOTAL UTILISATION-** 52.5 %	Mr. V.Ramesh	Lab Instructor	DEEE, AMIE
6.	**COMPUTER CENTER**	1(30)	1. Personal computers (INTEL CORE i3, 320 GB HDD, 8GB RAM-22 No.'s and 4 GB- 23 No.'s) 2. Laser Printer 3. Dot matrix Printer 4. Server (IBM X3400, M3 server - Lenova LCD Monitor, 250 GB HDD, 2GB RAM) (High Speed Processor) 5. Software: PSCAD / EMTDC 4.2 version Software,PSIM8.0.5 , NI Lab View software ,orcad PSpice 6. Compliers: C, C++, VB, VC++	**ODD SEM** **TOTAL UTILISATION-** - **30%** **EVEN SEM** **TOTAL UTILISATION – 50%**	Ms. P. Mangaiyar karasi	System Programmer	DECE, M.Sc., (IT)

7.	**CONTROL AND INSTRUMENTATI ON LABORATORY**	5(30)	1. PID , DSO,
			2. CRO Probe
			3. Personal computers
			4. DC motor, Generator, Rheostats, Ammeters ,Voltmeters
			5. CRO 30MHz , 2MHz Function Generator
			6. Position Control Systems Kit., Tacho Generator Coupling set
			8. AC Synchro transmitter & receiver
			9. Digital multimeters
			10. R, L, C Bridge kit
			  a) Electric heater ,Thermometer , Thermistor (silicon type) RTD nickel type
			  b) 30 psi Pressure chamber (complete set) , Current generator 0 – 20mA, Air foot pump.
			  c) LVDT 20 mm core length movable type, CRO 30MHz .
			  d) Optical sensor
			  e) Strain Gauge Kit with Handy lever beam
			  f) Flow measurement Trainer kit
			11. Single phase Auto transformer
			12. Watthour meter (energy meter).
			13. Stop watch
			14. IC Transistor kit
				EVEN SEM
				
				ODD SEM
				
				TOTAL UTILISATIO N-
				
				52.5 %
					Mr. V. Vimalan	Lab Technician	DEEE

8.	**ELECTRICAL MACHINES LABORATORY-II**	5(50)	1. separately excited DC generator 2. Single phase Transformer 3. Induction motor 4. DC Motor(Shunt, Series, Compound) 5. Induction motor 6.Switched Reluctance Motor 7.Brushless DC Motors 8.Permanent magnet DCMotor	**ODD SEM** **TOTAL UTILISATIO N –** 20%	Mr. D. Rajesh	Lab Technician	DEEE, BCA

| 9. | **POWER ELECTRONICS LABORATORY** | 5(30) | 1.Device characteristics (for SCR, MOSFET, TRIAC and IGBT kit with builtin / discrete power supply and meters)
 2. single phase SCR based half controlled converter and fully controlled converter along with built-in/separate/firing circuit/module and meter
 3. MOSFET based step up and step downchoppers(Built in/ Discrete)
 4. IGBT based single phase PWM inverter module/Discrete Component
 5. IGBT based three phase PWM inverter module/Discrete Component
 6. Switched mode power converter module/Discrete Component
 7. SCR & TRIAC based 1 phase AC controller along with lamp or rheostat load
 8. Cyclo converter kit with firing module
 9. Dual regulated DC power supply with common ground
 10. Cathode ray Oscilloscope
 11. Isolation Transformer
 12. Single phase Auto transformer
 13. Components (Inductance, Capacitance)
 14. Multimeter
 15. LCR meter
 16. Rheostats of various ranges
 17. Work tables
 18. DC and AC meters of required ranges | **ODD SEM**

 TOTAL UTILISATION –

 37.5 % | Mr. V. Ramesh | Lab Instructor | DEEE, AMIE |

D2: `Safety Measures in Laboratories

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

S.No	Name of the Laboratory	Safety Measures
1.	Engineering Practices Laboratory	➢ Fire extinguisher ➢ First aid kit ➢ Intercom Facility ➢ Switch Gear for Short Circuit Protection ➢ Main Control Panel ➢ Rubber Mat ➢ Gloves
2.	Microprocessor And Microcontroller Laboratory	
3.	Linear And Digital Integrated Circuits Laboratory	
4.	Electrical Machines Laboratory-I	
5.	Control System Laboratory	
6.	Power Electronics Laboratory	
7.	Computer Center	
8.	Research Lab	
9.	Electrical Machines Laboratory-I	
10.	Renewable Energy Resources Lab	

D3: Project Laboratory/Research Laboratory

Table No. D3.1: List of project laboratory/research laboratory /Centre of Excellence

S.No	Name Of The Laboratory	Name of Important Equipment
1	RESEARCH LAB I & II	1.Microcontroller Based Speed Control of Chopper fed DC Motor 2.DSP Based System Speed Control of BLDC Motor 3.Isolation Transformer 4. Design UPS module 5.PIC controller trainer module 6. DSO 7. Opti system software 22.0 (Optical sensors and Communication development)
2	Project Laboratory	1. Project laboratories are equipped with the necessary equipment and modern software tools, such as MATLAB, PSPICE 16.6, and PSIM 6.1, for student use. 2. Personal computers are available for students to work on their projects. 3. A 60 Mbps internet connection is available in the project laboratories. 4. Wi-Fi connectivity is provided in the project laboratory. 5. Students can access research papers from reputed journals through the internet for their project work. A digital library facility with access to IEEE Xplore has been made available to students.
3	Centre of Excellence	**Automotive Battery Management system.** 1. Battery Pack Module(50KW) 2. Inductive load (20KW) 3. High Voltage BMS 4. Liquid Cooling System 5. HMI 6. PLC 7. Disel Alternator (62.5KVA) 8. GUI Software

PART E: Fist 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))/RF4
CAY 2024-25	1770	89	82	15	77.51%
CAYm1 2023-24	1680	84	72	18	72.86%
CAYm2 2022-23	1560	78	71	13	76.15%
				Average%	75.51%

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 CFY	Actual expenses in CFY (Feb 2025)	Budgeted in CFYm1	Actual Expenses in CFYm1	Budgeted in CFYm2	Actual Expenses in CFYm2	Budgeted in CFYm3	Actual Expenses in CFYm3
Infrastructure Built-Up	1125.00	1490.64	1600.00	2225.04	825.00	791.30	175.00	106.30
Library	35.00	29.57	55.00	42.75	55.00	53.84	75.00	77.98
Laboratory equipment	530.00	569.70	317.50	557.70	345.00	338.36	240.00	299.27
Teaching and non-teaching staff salary	5040.00	5182.48	4205.00	4379.40	3780.00	3542.78	3354.00	3206.16
Outreach Programs	125.00	137.00	150.00	160.63	115.00	162.31	47.00	59.07

R&D	185.00	187.85	185.00	206.72	142.00	188.37	71.00	68.63
Training, Placement and Industry linkage	135.00	129.73	230.00	186.58	205.00	208.12	95.00	86.99
SDGs	94.00	95.40	80.00	78.94	45.00	85.39	23.00	19.02
Entrepreneurship	95.00	95.00	80.00	78.95	75.00	80.09	20.00	22.81
Others*, pl. specify	3239.86	3507.19	2961.05	3242.00	2078.95	2191.08	1032.56	1206.98
Total amount (Rs)	**10603.86**	**11424.56**	**9863.55**	**11158.71**	**7665.95**	**7641.64**	**5132.56**	**5153.21**

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 CFY	Actual expenses in CFY (Feb 2025)	Budgeted in CFY$m1$	Actual Expenses in CFY$m1$	Budgeted in CFY$m2$	Actual Expenses in CFY$m2$	Budgeted in CFY$m3$	Actual Expenses in CFY$m3$
Laboratory equipment	40,50,000	24,53,823	26,50,000	13,41,848	20,00,000	9,05,103	10,00,000	6,18,276
Software	18,75,000	19,93,778	12,50,000	12,69,036	5,00,000	6,42,506	2,00,000	2,33,502
SDGs	7,00,000	7,45,091	7,50,000	6,57,579	7,50,000	7,74,579	2,25,000	1,81,377
Support for faculty development	4,50,000	4,82,284	6,75,000	6,57,715	10,50,000	11,33,123	2,50,000	2,17,494
R & D	13,50,000	14,67,147	18,50,000	17,22,096	12,00,000	11,67,898	6,00,000	6,54,382
Industrial Training, Industry expert, Internship	10,00,000	10,13,183	15,60,000	15,54,313	16,50,000	18,87,909	7,00,000	8,29,433
Miscellaneous expenses *	95,00,000	1,04,48,077	98,50,000	1,01,89,962	60,50,000	67,11,237	35,00,000	38,93,401
Total amount (Rs)	1,89,25,000	1,86,03,383	1,85,85,000	1,73,92,549	1,32,00,000	1,32,22,355	64,75,000	66,27,865