NATIONAL BOARD OF ACCREDITATION

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

Program Name : Electrical and Electronics Engineering	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 2
Application No: 11545	**Date of Submission**: 05-02-2026

PART A- Profile of the Institute

A1.Name of the Institute: AAA COLLEGE OF ENGINEERING AND TECHNOLOGY	
Year of Establishment : 2013	Location of the Institute: Near Amathur Sivakasi Tamil Nadu
A2. Institute Address:AAA COLLEGE OF ENGINEERING AND TECHNOLOGY,AMATHUR VILLAGE,SIVAKASI,VIRUDHUNAGAR DISTRICT,TAMILNADU, 626 005.	
City:Virudhunagar	State:Tamil Nadu
Pin Code:626005	Website:www.aaaenggcoll.ac.in
Email:aaaengineeringcollege@gmail.com	Phone No(with STD Code):04562-251111
A3. Name and Address of the Affiliating University (if any):	
Name of the University : ANNA UNIVERSITY CHENNAI	City: Chennai
State : Tamil Nadu	Pin Code: 600025
A4. Type of the Institution: Non-Autonomous (Affiliated)	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **8**
- No. of PG programs: **1**

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Artificial Intelligence and Data Science	2023	--	Artificial Intelligence and Data Science
2	Engineering & Technology	UG	Civil Engineering	2013	--	Civil Engineering
3	Engineering & Technology	PG	Computer Science and Engineering	2025	--	Computer Science and Engineering
4	Engineering & Technology	UG	Computer Science and Engineering	2013	--	Computer Science and Engineering
5	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2023	--	Computer Science and Engineering (Cyber Security)

6	Engineering & Technology	UG	Electrical & Electronics Engineering	2013	--	Electrical and Electronics Engineering
7	Engineering & Technology	UG	Electronics & Communication Engineering	2013	--	Electronics and Communication Engineering
8	Engineering & Technology	UG	Information Technology	2023	--	Information Technology
9	Engineering & Technology	UG	Mechanical Engineering	2013	--	Mechanical Engineering

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

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

No Record

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

No Record

PART-B: Program information

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

Table No. B1: Program details.
A. List of the Programs Offered by the Department:
List of the Allied Departments/Cluster and Programs:

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

A. Name of the HoD :	Dr.C.Senthil Kumar
B. Nature of appointment:	Regular
C. Qualification:	M.E. and Ph.D.

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	**2025-26 (CAY)**	**2024-25 (CAYm1)**	**2023-24 (CAYm2)**	**2022-23 (CAYm3)**	**2021-22 (CAYm4)**	**2020-21 (CAYm5)**	**2019-20 (CAYm6)**
N=Sanctioned intake of the program (as per AICTE /Competent authority)	60	60	60	60	60	60	60
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	59	60	54	56	40	32	25
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	5	0	7	10	17	4

N3=Separate division if any	0	1	1	0	0	2	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	0	1	0	0	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	59	67	55	63	50	51	29

CAY= Current Academic Year. CAYm1= Current Academic Year Minus 1 CAYm2= Current Academic Year Minus 2. LYG= Last Year Graduate. LYGm1= Last Year Graduate Minus 1. LYGm2= Last Year Graduate Minus 2.

B4. Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	60	59	0	98.33
2024-25 (CAYm1)	60	60	2	103.33
2023-24 (CAYm2)	60	54	0	90.00

Average [(ER1 + ER2 + ER3) / 3] = 97.22≡ 20.00

B5. Success Rate of the Students in the Stipulated Period of the Program

Table No.B5.1: The success rate in the stipulated period of a program.

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	50.00	51.00	29.00
B=No. of students who graduated from the program in the stipulated course duration	37.00	21.00	23.00

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 64.83

B6. Academic Performance of the First-Year Students of the Program

Table No.B6.1: Academic Performance of the First-Year Students of the Program.

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
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)	6.52	7.35	7.49
Y=Total no. of successful students	61.00	54.00	50.00
Z=Total no. of students appeared in the examination	62.00	54.00	56.00
API [X*(Y/Z)]	6.41	7.35	6.69

Average API[(AP1+AP2+AP3)/3] : 6.82

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	6.09	7.23	7.67
Y=Total no. of successful students	51.00	57.00	48.00
Z=Total no. of students appeared in the examination	54.00	57.00	49.00
API [X * (Y/Z)]	5.75	7.23	7.51

Average API [(AP1 + AP2 + AP3)/3] : 6.83

B8. Academic Performance of the Third Year Students of the Program

Table No.B8.1: Academic Performance of the Third Year Students of the Program

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.45	7.21	6.00
Y=Total no. of successful students	56.00	48.00	40.00
Z=Total no. of students appeared in the examination	57.00	48.00	41.00
API [X*(Y/Z)]:	7.32	7.21	5.85

Average API [(AP1 + AP2 + AP3)/3] : 6.79

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	70.00	77.00	64.00
X=No. of students placed	46.00	33.00	19.00
Y=No. of students admitted to higher studies	0.00	0.00	0.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	65.71	42.86	29.69

Average Placement Index = (P_1 + P_2 + P_3)/3: 46.09 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments

(Data to be filled in for the Department and Allied Departments)

C1. Faculty details of Department and Allied Departments

Table No.C1: Faculty details in the Department for the past 3 years including CAY

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr.C.Senthil Kumar	XXXXXXX69K	M.E. and Ph.D.	Anna University	Power Electronics & Drives	01/06/2015	10.7	Professor	Professor	01/06/2015	Regular	Yes		Yes
2	Dr.R.Pon Vengatesh	XXXXXXX90N	M.E. and Ph.D.	Anna University	Power Systems	05/08/2024	1.5	Professor	Professor	05/08/2024	Regular	Yes		No
3	Dr.M.Ramuvel	XXXXXXX95K	M.E. and Ph.D.	Anna University	Power Electronics & Drives	16/08/2021	4.5	Associate Professor	Associate Professor	16/08/2021	Regular	Yes		No
4	Dr.C.Karuppasamy	XXXXXXX36Q	M.E. and Ph.D.	Anna University	Power Electronics & Drives	22/06/2015	10.7	Assistant Professor	Associate Professor	01/07/2024	Regular	Yes		No
5	Dr.M.Palpandian	XXXXXXX50Q	M.E. and Ph.D.	Anna University	Power Electronics & Drives	06/06/2025	0.7	Associate Professor	Associate Professor	06/06/2025	Regular	Yes		No
6	Dr.P.Muthu Thiruvengadam	XXXXXXX36K	M.E. and Ph.D.	Anna University	Power Electronics & Drives	06/06/2025	0.7	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Dr.J.Kohila	XXXXXXX94D	M.E. and Ph.D.	Kalasalingam Academy Research and Education	Power Electronics & Drives	25/08/2025	0.4	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Dr.P.Nirmal Kumar	XXXXXXX55R	M.E. and Ph.D.	Anna University	Power Electronics & Drives	17/08/2022	3.5	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mrs.B.Sarojini	XXXXXXX39B	M.E.	Anna University	Embedded System Technologies	01/06/2016	9.7	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Mr.M.S.Kalyana Sundaram	XXXXXXX34R	M.E.	Anna University	Applied Electronics	01/06/2017	8.7	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Mrs.M.Maheswari	XXXXXXX81H	M.E.	Anna University	Power Electronics & Drives	24/06/2019	6.7	Assistant Professor	Assistant Professor		Regular	Yes		No

12	Mr.R.Vinothkumar	XXXXXXX18K	M.E.	Anna University	High Voltage Engineering	21/02/2022	3.11	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Mr.P.Manikandan	XXXXXXX52D	M.E.	Anna University	Power Systems Engineering	01/08/2022	3.5	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Mrs.C.Mohana	XXXXXXX31G	M.E.	Anna University	Power Systems Engineering	23/07/2025	0.6	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Mr.J.Raguraman	XXXXXXX67F	M.E.	Anna University	Power Electronics & Drives	07/07/2025	0.6	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Dr.S.Murugan	XXXXXXX03L	M.E. and Ph.D.	Anna University	Control and Instrumentation	01/03/2024	0.10	Professor	Professor	01/03/2024	Regular	No	09/01/2025	No
17	Dr.M.Muthuselvi	XXXXXXX87M	M.Tech and Ph.D.	Anna University	Nanoscience Technology	03/08/2023	1.9	Assistant Professor	Assistant Professor		Regular	No	31/05/2025	No
18	Mrs.V.Chandra	XXXXXXX67M	M.E.	Anna University	Applied Electronics	01/08/2022	2.10	Assistant Professor	Assistant Professor		Regular	No	16/06/2025	No
19	Dr.S.Suganya	XXXXXXX71G	M.E. and Ph.D.	Anna University	Power Systems Engineering	04/09/2023	2	Associate Professor	Associate Professor	04/09/2023	Regular	No	18/09/2025	No

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

C2. Student-Faculty Ratio (SFR)

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

No. of UG Programs in the Department1 No. of PG Programs in the Department0

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	65	60	66
UG1.C	60	66	66
UG1.D	66	66	66
UG1: Electrical & Electronics Engineering	**191**	**192**	**198**
DS=Total no. of students in all UG and PG programs in the Department	191	192	198
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	**S1=** 191	**S2=** 192	**S3=** 198
DF=Total no. of faculty members in the Department	15	13	11
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	**F1=** 15	**F2=** 13	**F3=** 11
FF=The faculty members in F who have a 100% teaching load in the first-year courses	3	2	2
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 15.92**	**SFR2= 17.45**	**SFR3= 22.00**
Average SFR for 3 years	**SFR= 18.46**		

C3. Faculty Qualification

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

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = 2.5 x [(10X + 4Y) / RF)]
2025-26(CAY)	7	8	9.00	28.33
2024-25(CAYm1)	6	7	9.00	24.44
2023-24(CAYm2)	3	8	9.00	17.22

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	1.00	2.00	2.00	3.00	6.00	10.00
2024-25	1.00	2.00	2.00	3.00	6.00	8.00
2023-24	1.00	1.00	2.00	1.00	6.00	9.00
Average	RF1=1.00	AF1=1.67	RF2=2.00	AF2=2.33	RF2=6.00	AF2=9.00

C5. Visiting/Adjunct Faculty/Professor of Practice

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

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr.D.V.Harish	Project Manager	Sree Hari Hi – Tech Automations, Sivakasi.	CEI331 – PLC Programming	8.00
2	Mr.D.V.Harish	Project Manager	Sree Hari Hi – Tech Automations, Sivakasi.	EE3014 – Power Electronics for Renewable Energy Systems	8.00
3	Mr.D.V.Harish	Project Manager	Sree Hari Hi – Tech Automations, Sivakasi.	CME365 – Renewable Energy Technologies	8.00
4	Mr.D.V.Harish	Project Manager	Sree Hari Hi – Tech Automations, Sivakasi.	OCS352 – IoT Concepts and Applications	16.00
5	Mr.D.V.Harish	Project Manager	Sree Hari Hi – Tech Automations, Sivakasi.	EE3012 – Electrical Drives	16.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr.D.V.Harish	Project Manager	Sree Hari Hi – Tech Automations, Sivakasi.	CEI331 – PLC Programming	16.00
2	Mr.D.V.Harish	Project Manager	Sree Hari Hi – Tech Automations, Sivakasi.	EE3014 – Power Electronics for Renewable Energy Systems	8.00
3	Mr.D.V.Harish	Project Manager	Sree Hari Hi – Tech Automations, Sivakasi.	CME365 – Renewable Energy Technologies	8.00
4	Mr.D.V.Harish	Project Manager	Sree Hari Hi – Tech Automations, Sivakasi.	OCS352 – IoT Concepts and Applications	12.00
5	Mr.D.V.Harish	Project Manager	Sree Hari Hi – Tech Automations, Sivakasi.	EE3012 – Electrical Drives	8.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr.A.Saravana Kumar	Scientist E, Joint Director	Power Electronics Group, Centre for Development of Advanced Computing, Thiruvananthapuram.	EE8552 - Power Electronics	20.00
2	Mr.A.Saravana Kumar	Scientist E, Joint Director	Power Electronics Group, Centre for Development of Advanced Computing, Thiruvananthapuram.	EE8601 - Solid State Drives	16.00
3	Mr.A.Saravana Kumar	Scientist E, Joint Director	Power Electronics Group, Centre for Development of Advanced Computing, Thiruvananthapuram.	EE8019 – Smart Grid	16.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	5	5	1
2	No. of peer reviewed conference papers published	15	13	21
3	No. of books/book chapters published	2	2	0

C7. Sponsored Research Project

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.S.Suganya		MSME Ideathon	Automated Emergency Stretcher System with Autonomous Navigation & Real Time Monitoring	MSME	18 Months	15.00
Mr.M.S.Kalyana Sundaram		MSME Ideathon	Smart Vest for Mining Workers	MSME	18 Months	15.00
						Amount received (Rs.):30.00

(CAYm2)

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: 30.00

Note*:

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

C8. Consultancy Work

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
						Amount received (Rs.):0

(CAYm2)

(CAYm3)

Total amount (Lacs) received for the past 3 years: 0

Note*:

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

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

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

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Mrs.B.Sarojini	High gain DC-DC Converter	12 Months	0.12	0.12	-
Mr.M.S.Kalyana Sundaram	LED condition monitoring system	12 Months	0.12	0.12	Published SCI paper
Mrs.M.Maheswari	Device for testing noise and vibration of Electric Vehicle Motor	12 Months	0.12	0.12	Patent Granted
Mrs.V.Chandra	Aero optimized wheelrim for Electric Vehicles	12 Months	0.12	0.12	Patent registered
Mr.P.Nirmal Kumar	Back Power protection and Smart ML Controller for PPEMS	12 Months	0.12	0.12	-
Dr. C. Senthil Kumar	Smart Navigation Robot for helping elder people	6 Months	0.14	0.14	Prototype developed
Mr. M. S. Kalyana Sundaram	Sensing based monitoring systems for electrical Vehicle battery management system	6 Months	0.20	0.20	Prototype developed
Mrs. B. Sarojini Mrs. M. Maheswari	DC to DC Converter based Fast Charging System	6 Months	0.20	0.20	Working Model developed
Dr. C. Karuppasamy	Predictive solar forecast driven EV charging controller with real time grid stability constrains	6 Months	0.20	0.20	Prototype developed
Mr. P. Nirmal Kumar	IoT based Transformer health monitoring system	6 Months	0.16	0.16	Prototype developed
Dr. C. Senthil Kumar Dr.C.Karuppasamy	Optimising PID control for MPPT in PV system under variable and partial shading condition	12 Months	0.45	0.45	Published a paper in SCI
Dr.S.Suganya	Nanocomposite on nockel foam: a promising electrode for advanced energy storage	12 Months	0.20	0.20	Published a paper in SCI
			Amount received (Rs.): 2.15		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Mrs. B. Sarojini	High Gain DC-DC Converter	4 Months	0.04	0.04	-
Mr.M.S.Kalyana Sundaram	LED condition monitoring system	4 Months	0.04	0.04	-
Mrs. M. Maheswari	Device for testing noise and vibration of Electric Vehicle Motor	4 Months	0.04	0.04	-
Mrs.V.Chandra	Low Complexity Energy Disaggregation Algorithm	4 Months	0.04	0.04	Published a SCI paper
Mr.P.Nirmal Kumar	Enhancing grid connected solar PV system with a novel three phase hybrid Multilevel Inverter	4 Months	0.04	0.04	Published a paper in SCI
Dr. S. Suganya	Live human detection and altering system using an IoT	6 Months	0.18	0.18	Prototype developed
Mr. M. S. Kalyana Sundaram	Gesture Control Prosthetic Hand for Personalized Assistance	6 Months	0.20	0.20	Working Model developed
Mr. M. Manikandan	Multi functional agriculture robot	6 Months	0.20	0.20	Working Model developed
Mr. R. Vinothkumar	Drainage Cleaning System using IoT	6 Months	0.19	0.19	Working Model developed
Dr. C. Karuppasamy	Enhancing Energy in smart grid integration with a hybrid DHO- MACNN for photovoltaic system	12 Months	0.45	0.45	Published a paper in SCI
Dr.S.Suganya	Neural Network based system for forecasting the power needs of Electric Vehicle	12 Months	0.10	0.10	Published a paper in Scopus
			Amount received (Rs.): 1.52		

(CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr.M. Ramuvel	Automatic PCB etching and shaker system using an IoT	6 Months	0.18	0.18	Working Model developed
Dr.C. Karuppasamy	Fire Fighting Robot	6 Months	0.09	0.09	Working Model developed
Mrs. B. Sarojini	Old age people real time medicine dispenser	6 Months	0.20	0.20	Working Model developed
Mrs. M. Maheswari	Automatic Solar Panel Cleaning System using IoT	6 Months	0.20	0.20	Working Model developed
Dr.C.Senthil Kumar	Performance Evaluation of Solar combined boosting topology for EV battery charging	6 Months	0.30	0.30	Published a paper in SCI Journal
Dr.S.Suganya	Impact evaluation of different plug in Electric Vehicles emission using precise pricing system	6 Months	0.05	0.05	Published a paper in Scopus indexed Journal
			Amount received (Rs.): 1.02		

Total amount (Lacs) received for the past 3 years : 4.69

PART D: Laboratory Infrastructure in the Department

(Data to be filled in for the Department)

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

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

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Electrical Machines Laboratory	33	1.DC Shunt Motor -5KW,220V 2.DC Series Motor -3HP 3.DC Compound Motor 4.DC Motor, DC generator 5.3Φ and 1Φ	6 Hours. per w	Mr.S.Rajakumar	Technician	D.PT
2	Linear Integrated Circuits Laboratory	33	1.Digital trainer Kit 2. Function Generator 3.Multimeters 4.Dual regulated Power supply 5.IC Tester 6.LCR Meter 7.Decade	6 Hours.per w	Mr.C.Mathan Kumar	Technician	D.EEE
3	Power Electronics Laboratory	33	1. Module for studying the characteristics of SCR, TRIAC, MOSFET and IGBT 2. 1 Φ half wave controlled and Bridge rectifier 3	6 Hours.per w	Mr.R.B.Selva Praka	Technician	D.EEE
4	Power System Simulation Laboratory	33	1.Power World Simulator software 2.MATLAB 3. PSPICE	13 Hours.per w	Mr.S.Mohanraj	Technician	B.Sc.(CS)

5	Engineering Practices Laboratory	33	1.Staircase wiring Kit 2.House Wiring Kit 3.Fluorescent Lamp Kit 4.Soldering 5.IC	15Hours.per w	Mr.P.Mohanraj	Technician	ITI
6	Microprocessor and Micro controller Laboratory	33	1.8085 MP Kit 2.8086 MP Kit 3.8051 MCKit 4.Interface (DC,DAC.RTC, Stepper Motor	6 Hours.per w	Mr.R.B.Selva Praka	Technician	D.EEE

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Electrical Machines Laboratory	1. Do's and Don'ts for the concerned laboratory need to be followed strictly. 2. Electrical Wires are protected by Miniature Circuit Breaker. 3. First aid kit. 4. Fire Extinguisher. 5. Proper earthing. 6. CCTV cameras. 7. Students are supposed to wear lab coat, shoes and avoid loose clothing. 8. Girls' students should have their hair tucked under their coat or have it in a knot. 9. Damaged equipment's are identified and serviced at the earliest. 10. Periodical calibration of the lab equipment's is regularly done. 11. A clean and organized laboratory is maintained. 12. Safety gloves/glasses available for handling.
2	Linear Integrated Circuits Laboratory	1. Do's and Don'ts for the concerned laboratory need to be followed strictly. 2. Electrical Wires are protected by Miniature Circuit Breaker. 3. First aid kit. 4. Fire Extinguisher. 5. Proper earthing. 6. CCTV cameras. 7. Students are supposed to wear lab coat, shoes and avoid loose clothing. 8. Girls' students should have their hair tucked under their coat or have it in a knot. 9. Damaged equipment's are identified and serviced at the earliest. 10. Periodical calibration of the lab equipment's is regularly done. 11. A clean and organized laboratory is maintained. 12. Safety gloves/glasses available for handling.
3	Power Electronics Laboratory	1. Do's and Don'ts for the concerned laboratory need to be followed strictly. 2. Electrical Wires are protected by Miniature Circuit Breaker. 3. First aid kit. 4. Fire Extinguisher. 5. Proper earthing. 6. CCTV cameras. 7. Students are supposed to wear lab coat, shoes and avoid loose clothing. 8. Girls' students should have their hair tucked under their coat or have it in a knot. 9. Damaged equipment's are identified and serviced at the earliest. 10. Periodical calibration of the lab equipment's is regularly done. 11. A clean and organized laboratory is maintained. 12. Safety gloves/glasses available for handling.
4	Engineering Practices Laboratory	1. Do's and Don'ts for the concerned laboratory need to be followed strictly. 2. Electrical Wires are protected by Miniature Circuit Breaker. 3. First aid kit. 4. Fire Extinguisher. 5. Proper earthing. 6. CCTV cameras. 7. Students are supposed to wear lab coat, shoes and avoid loose clothing. 8. Girls' students should have their hair tucked under their coat or have it in a knot. 9. Damaged equipment's are identified and serviced at the earliest. 10. Periodical calibration of the lab equipment's is regularly done. 11. A clean and organized laboratory is maintained. 12. Safety gloves/glasses available for handling.

5	Power System Simulation Laboratory	1. Do's and Don'ts for the laboratory followed strictly (e.g., lab coat/formal dress, no energized circuit contact, report equipment failure, no late entry, no unauthorized experiments/internet/USB). 2. Electrical wires protected by Miniature Circuit Breaker. 3. First aid kit (monthly checked, campus dispensary backup). 4. Fire extinguisher (monthly checked, annual workshop). 5. Proper earthing (monthly checked). 6. CCTV cameras (monthly checked). 7. Students wear lab coat, shoes; avoid loose clothing; girls' hair tucked/knot. 8. Damaged equipment identified/serviced earliest. 9. Install updated licensed antivirus software. 10. Periodical calibration of equipment done regularly. 11. Clean/organized lab maintained (monthly housekeeping: floor/glass cleaning, garbage/cobweb removal, storage areas). 12. Electrical maintenance (monthly:connections/fans/lights/AC/plugs; weekly: water leakage). 13. Weekly equipment maintenance (dust removal, lubrication/function/network/virus checks). 14. Well-trained technical staff monitor at all times; equipment off when leaving. 15. UPS to control voltage fluctuations. 16. Safety gloves/glasses available for handling.
6	Centre of IIoT	1. Do's and Don'ts for the laboratory followed strictly (e.g., lab coat/formal dress, no energized circuit contact, report equipment failure, no late entry, no unauthorized experiments/internet/USB). 2. Electrical wires protected by Miniature Circuit Breaker. 3. First aid kit (monthly checked, campus dispensary backup). 4. Fire extinguisher (monthly checked, annual workshop). 5. Proper earthing (monthly checked). 6. CCTV cameras (monthly checked). 7. Students wear lab coat, shoes; avoid loose clothing; girls' hair tucked/knot. 8. Damaged equipment identified/serviced earliest. 9. Install updated licensed antivirus software. 10. Periodical calibration of equipment done regularly. 11. Clean/organized lab maintained (monthly housekeeping: floor/glass cleaning, garbage/cobweb removal, storage areas). 12. Electrical maintenance (monthly:connections/fans/lights/AC/plugs; weekly: water leakage). 13. Weekly equipment maintenance (dust removal, lubrication/function/network/virus checks). 14. Well-trained technical staff monitor at all times; equipment off when leaving. 15. UPS to control voltage fluctuations. 16. Safety gloves/glasses available for handling.
7	Project Laboratory	1. Do's and Don'ts for the laboratory followed strictly (e.g., lab coat/formal dress, no energized circuit contact, report equipment failure, no late entry, no unauthorized experiments/internet/USB). 2. Electrical wires protected by Miniature Circuit Breaker. 3. First aid kit (monthly checked, campus dispensary backup). 4. Fire extinguisher (monthly checked, annual workshop). 5. Proper earthing (monthly checked). 6. CCTV cameras (monthly checked). 7. Students wear lab coat, shoes; avoid loose clothing; girls' hair tucked/knot. 8. Damaged equipment identified/serviced earliest. 9. Install updated licensed antivirus software. 10. Periodical calibration of equipment done regularly. 11. Clean/organized lab maintained (monthly housekeeping: floor/glass cleaning, garbage/cobweb removal, storage areas). 12. Electrical maintenance (monthly:connections/fans/lights/AC/plugs; weekly: water leakage). 13. Weekly equipment maintenance (dust removal, lubrication/function/network/virus checks). 14. Well-trained technical staff monitor at all times; equipment off when leaving. 15. UPS to control voltage fluctuations. 16. Safety gloves/glasses available for handling.

D3. Project Laboratory/Research Laboratory

PART E: First Year faculty and financial Resources

(Data to be filled in for the first year course faculty and budget allocation and utilization)

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) + (NS2*0.2))/RF
2023-24(CAYm2)	540	27	23	12	77
2024-25(CAYm1)	600	30	25	12	75
2025-26(CAY)	660	33	30	17	83

E2. Budget Allocation, Utilization, and Public Accounting at Institute Level

Table No. E2.1: Budget and actual expenditure incurred at Institute level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Infrastructure Built-Up	6400000	6371018	5450000	5431427	3100000	2958794	9000000	8608272
Library	750000	690013	1500000	1554307	900000	802388	700000	654410
Laboratory equipment	6700000	5218340	6700000	6630041	8400000	8367314	6000000	5966550
Teaching and non-teaching staff salary	55000000	54179537	46500000	46760295	37600000	37557197	31000000	30935351
Outreach Programs	1000000	829257	1000000	1185359	2200000	2174073	500000	300242
R&D	400000	348920	400000	362623	2120000	2119972	300000	225928
Training, Placement and Industry linkage	3000000	2981257	2900000	2853423	2500000	2430991	900000	835512
SDGs	300000	36133	280000	273845	20000	19136	300000	352196
Entrepreneurship	1000000	761103	200000	190875	200000	150845	200000	180143
Others, specify	35000000	31245288	42380000	41871999	33480000	32014733	28300000	28232982
Total	**109550000**	**102660866**	**107310000**	**107114194**	**90520000**	**88595443**	**77200000**	**76291586**

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

Table No. E3.1: Budget and actual expenditure incurred at program level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Laboratory equipment	307950	88235	290200	335592	435800	515117	227900	246504
Software	1650000	1627162	750000	727929	760000	760677	250000	220087
SDGs	20000	16500	15000	14850	15000	12655	15000	13655
Support for faculty development	40000	43580	35000	33750	35000	23142	35000	37500
R & D	1670000	1643662	765000	742779	775000	773332	265000	233742
Industrial Training, Industry expert,	60000	58500	60000	55000	60000	62750	60000	52350
Lab Consumables, Furniture, Salary,	5200000	5125612	6600000	6544259	2600000	2424559	4100000	4114624
Total	**8947950**	**8603251**	**8515200**	**8454159**	**4680800**	**4572232**	**4952900**	**4918462**