

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 : 11988	Date of Submission : 24-06-2026

PART A- Profile of the Institute

A1.Name of the Institute: MOTHER TERASA COLLEGE OF ENGINEERING AND TECHNOLOGY	
Year of Establishment : 2009	Location of the Institute: Illuppur Pudukkottai
A2. Institute Address: Mettusalai, Illuppur Post, Pudukkottai district,	
City:Pudukkottai	State:Tamil Nadu
Pin Code:622102	Website:www.mtcet.in
Email:principalmtcet9116@gmail.com	Phone No(with STD Code):-
A3. Name and Address of the Affiliating University (if any):	
Name of the University : ANNA UNIVERSITY	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: 5

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	2022	--	Artificial Intelligence and Data Science
2	Engineering & Technology	UG	Civil Engineering	2009	--	Civil Engineering
3	Engineering & Technology	PG	Computer Science & Engineering	2013	--	Computer Science and Engineering
4	Engineering & Technology	UG	Computer Science and Business Systems	2022	--	Computer Science and Business System
5	Engineering & Technology	UG	Computer Science and Engineering	2012	--	Computer Science and Engineering
6	Engineering & Technology	UG	Electrical and Electronics Engineering	2009	--	Electrical and Electronics Engineering
7	Engineering & Technology	UG	Electronics & Communication Engineering	2009	--	Electronics and Communication Engineering
8	Engineering & Technology	PG	Manufacturing Engineering	2013	--	Mechanical Engineering

9	Engineering & Technology	UG	Mechanical Engineering	2009	--	Mechanical Engineering
10	Engineering & Technology	PG	Power Systems Engineering	2014	--	Electrical and Electronics Engineering
11	Engineering & Technology	UG	Robotics and Automation	2025	--	Robotics and Automation
12	Engineering & Technology	PG	Structural Engineering	2014	--	Civil Engineering
13	Engineering & Technology	PG	VLSI Design	2012	--	Electronics and Communication Engineering

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

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

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Mechanical Engineering	No	Mechanical Engineering	UG
Electronics and Communication Engineering	No	Electronics & Communication Engineering	UG
Electrical and Electronics Engineering	No	Electrical and Electronics Engineering	UG

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

No Record

PART-B: Program information

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

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY APPROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRA DURATION
1	Electrical and Electronics Engineering	UG	2009 / --	60	No	NA	60	2009	F.NO:06/05/TN/E&T/2008/47	Applying first time	--	--	0	4

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.M.Ayyakrishnan
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	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	26	10	5	9	10	5	12
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	0	2	0	2	20	1
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	0	0	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	26	10	7	9	12	25	13

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	26	0	43.33
2024-25 (CAYm1)	60	10	0	16.67
2023-24 (CAYm2)	60	5	0	8.33

Average [(ER1 + ER2 + ER3) / 3] = 22.78≅ 0.00

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).	62.00	66.00	61.00
B=No. of students who graduated from the program in the stipulated course duration	2.00	4.00	7.00
Success Rate (SR)= (B/A) * 100	3.23	6.06	11.48

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 6.92

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

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

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
Mean of CGPA or mean percentage of all successful students(X)	7.16	7.54	7.37
Y=Total no. of successful students	10.00	5.00	9.00
Z=Total no. of students appeared in the examination	10.00	5.00	9.00

API [X*(Y/Z)]	7.16	7.54	7.37
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Average API[(AP1+AP2+AP3)/3] : 7.36

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)	6.76	7.75	6.89
Y=Total no. of successful students	7.00	9.00	10.00
Z=Total no. of students appeared in the examination	7.00	9.00	12.00
API [X * (Y/Z)]	6.76	7.75	5.74

Average API [(AP1 + AP2 + AP3)/3] : 6.75

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)	7.68	7.32	6.12
Y=Total no. of successful students	9.00	10.00	19.00
Z=Total no. of students appeared in the examination	9.00	10.00	24.00
API [X*(Y/Z)]:	7.68	7.32	5.16

Average API [(AP1 + AP2 + AP3)/3] : 6.72

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	62.00	66.00	61.00
X=No. of students placed	9.00	14.00	10.00
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):	14.52	21.21	16.39

Average Placement Index = (P_1 + P_2 + P_3)/3: 17.37 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	Mrs.J.Sophia	XXXXXXX96C	M.E.	ANNA UNIVERSITY	Power Electronics and Drives	24/07/2019	6.11	Assistant Professor	Assistant Professor		Regular	Yes		No
2	Mrs.E.Nancy Christy	XXXXXXX80R	M.E.	ANNA UNIVERSITY	Power Electronics and Drives	29/05/2024	2	Assistant Professor	Assistant Professor		Regular	Yes		No
3	Mr.S.Packiyaraj	XXXXXXX11M	M.E.	ANNA UNIVERSITY	Power management	19/12/2018	7.6	Assistant Professor	Assistant Professor		Regular	Yes		No
4	Mr.S.Ramesh	XXXXXXX28N	M.E.	ANNA UNIVERSITY	Power systems Engineering	01/08/2023	2.10	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Ms.G.Glory	XXXXXXX09J	M.E.	ANNA UNIVERSITY	Power systems Engineering	27/02/2023	3.3	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Mr.S.Johnleo	XXXXXXX38E	M.E.	ANNA UNIVERSITY	Power systems Engineering	23/05/2024	2.1	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Mrs.M.Nagajothi	XXXXXXX23B	M.E.	ANNA UNIVERSITY	Embedded systems Technologies	29/05/2024	2	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Mr.V.Parthiban	XXXXXXX99C	M.E.	ANNA UNIVERSITY	Embedded systems Technologies	23/05/2024	2.1	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mr.A.John paul	XXXXXXX85G	M.E.	ANNA UNIVERSITY	Power Electronics and Drives	03/07/2023	2.11	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Dr.M.Ayyakrishnan	XXXXXXX69A	Ph.D	ANNA UNIVERSITY	Power Electronics and Drives	12/08/2024	1.10	Professor	Professor	12/08/2024	Regular	Yes		Yes
11	Dr.R.Muthukumar	XXXXXXX95K	Ph.D	ANNA UNIVERSITY	Renewable Energy Systems	21/07/2025	0.11	Associate Professor	Associate Professor	21/07/2025	Regular	Yes		No
12	Ms.M.Barathi	XXXXXXX03P	M.E.	ANNA UNIVERSITY	Power systems Engineering	13/08/2025	0.10	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Mr.T.Prakash	XXXXXXX90P	M.E.	ANNA UNIVERSITY	Power systems Engineering	20/08/2025	0.10	Assistant Professor	Assistant Professor		Regular	Yes		No
14	K.Sharmila Banu	XXXXXXX07E	M.E.	ANNA UNIVERSITY	Power Electronics and Drives	03/07/2023	2.11	Assistant Professor	Assistant Professor		Regular	Yes		No

15	Mrs.S.Susila Devi	XXXXXXX53B	M.E.	ANNA UNIVERSITY	Power Electronics and Drives	24/01/2022	2.9	Assistant Professor	Assistant Professor		Regular	No	11/11/2024	No
16	Mr.R.Arunkumar	XXXXXXX80F	M.E.	ANNA UNIVERSITY	Power Electronics and Drives	01/09/2022	1.8	Assistant Professor	Assistant Professor		Regular	No	20/05/2024	No
17	Mr.MB.Joseph Gerald	XXXXXXX19C	M.E.	ANNA UNIVERSITY	Power Electronics and Drives	10/10/2022	1.7	Assistant Professor	Assistant Professor		Regular	No	18/05/2024	No
18	Dr.S.Jambulingam	XXXXXXX19C	Ph.D	ANNA UNIVERSITY	Power Electronics and Drives	14/02/2022	3.3	Associate Professor	Associate Professor	14/02/2022	Regular	No	30/05/2025	No
19	Mr.k.Subramani	XXXXXXX85N	M.E.	ANNA UNIVERSITY	Power Electronics and Drives	12/08/2024	0.9	Assistant Professor	Assistant Professor		Regular	No	15/05/2025	No
20	Mrs.Kamatchi	XXXXXXX18K	M.E.	Srichandrasehraendra saraswathivisva maha vidhyalaya	Power systems Engineering	06/08/2024	1.2	Assistant Professor	Assistant Professor		Regular	No	08/10/2025	No
21	M.Suganya	XXXXXXX36A	M.E.	ANNA UNIVERSITY	Power systems Engineering	03/02/2020	4.3	Assistant Professor	Assistant Professor		Regular	No	30/05/2024	No
22	Mr.K. MAHESH RAM	XXXXXXX39C	M.E.	ANNA UNIVERSITY	Power Electronics and Drives	04/07/2022	1.10	Assistant Professor	Assistant Professor		Regular	No	30/05/2024	No

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

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):

UG1=1st UG program

UGn=nth UG program

B= No. of Students in UG 2nd year (ST)

C= No. of Students in UG 3rd year (ST)

D= No. of Students in UG 4th year (ST)

No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year

B= No. of Students in PG 2nd year

Student Faculty Ratio (**SFR**) = S/F

S= No. of students of all programs in the Department including all students of allied departments/clusters.

No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)

Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.

F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

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

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	60	62	60

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.C	62	60	62
UG1.D	60	62	66
UG1: Electrical and Electronics Engineering	182	184	188
PG1.A	18	18	18
PG1.B	18	18	18
PG1: Power Systems Engineering	36	36	36
DS=Total no. of students in all UG and PG programs in the Department	218	220	224
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= 218	S2= 220	S3= 224
DF=Total no. of faculty members in the Department	14	14	12
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= 14	F2= 14	F3= 12
FF=The faculty members in F who have a 100% teaching load in the first-year courses	2	1	1
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 18.17	SFR2= 16.92	SFR3= 20.36
Average SFR for 3 years	SFR= 18.48		

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 = $2.5 \times [(10X + 4Y) / RF]$
2025-26(CAY)	2	12	10.00	17.00
2024-25(CAYm1)	2	12	10.00	17.00
2023-24(CAYm2)	1	11	11.00	12.27

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents.}$
- RF2= No. of Associate Professors required = $2/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents.}$
- RF3= No. of Assistant Professors required = $6/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents.}$
- 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	1.00	2.00	1.00	7.00	12.00
2024-25	1.00	1.00	2.00	1.00	7.00	12.00
2023-24	1.00	0.00	2.00	1.00	7.00	11.00
Average	RF1=1.00	AF1=0.67	RF2=2.00	AF2=1.00	RF2=7.00	AF2=11.67

C5. Visiting/Adjunct Faculty/Professor of Practice

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

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	P.SELVAMANI	Electrical Supervisor	GEMROSE TEXTILES INDIA (P) LTD COIMBATORE	INDUSTRIAL MAINTENANCE,POWER ELECTRONICS AND AUTOMATION	26.00
2	P.SELVAMANI	Electrical Supervisor	GEMROSE TEXTILES INDIA (P) LTD COIMBATORE	BATTERY MANAGEMENT SYSTEMS FOR ELECTRIC VEHICLES	26.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	RAJA.C	SENIOR CONSOLE OFFICER	CAPGEMINI TECHNOLOGY SERVICE LTD	EMBEDDED SYSTEM BASED ON THE IOT	26.00
2	RAJA.C	SENIOR CONSOLE OFFICER	CAPGEMINI TECHNOLOGY SERVICE LTD	POWER ELECTRONICS FOR SUSTAINABLE ENERGY APPLICATIONS	26.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	B.DINESH	SITE ENGINEER	OEG INDIA LIMITED	SMART EV BATTERY MANAGEMENT SYSTEM USING EMBEDDED CONTROLLER	26.00
2	B.DINESH	SITE ENGINEER	OEG INDIA LIMITED	SMART GRID TECHNOLOGIES AND GRID MONIDERNIZATION	26.00

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	0	1	1
2	No. of peer reviewed conference papers published	0	0	0
3	No. of books/book chapters published	1	0	0

C7. Sponsored Research Project

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

(CAYm1)

(CAYm2)

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: NIL**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
Mrs.G.Glory	Mr.Johnpaul A	EEE	Automated Door locks	Galwin technology	50 days	1.25
						Amount received (Rs.):1.25

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Mr.R.Arunkumar	Mr. Maheshram K	EEE	Energy Audit	M/S Primary Health Centre,Perambur, Illupur(tk), Pudukottai Dt	1 month	0.50
						Amount received (Rs.):0.50

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Mr.A,Johnpaul	Mr Packiaraj S	EEE	Energy Audit	SRI PALANI ANDAVAR MODERN RICE MILL Pon-Pudupatti, Pudukottai,	1 month	0.50
						Amount received (Rs.):0.50

Total amount (Lacs) received for the past 3 years: 2.25**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.E.Nancy christy	IOT Based Smart Agriculture Monitoring System	3 months	0.06	0.06	proto type
			Amount received (Rs.): 0.06		

(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
Mr.R.Arun kumar	IOT Based Transformer Monitoring System	3 Months	0.09	0.09	proto type
			Amount received (Rs.): 0.09		

(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
Mr.S.Susila Devi	IOT Based Automotive Battery State Health Monitoring System	3 Months	0.09	0.09	proto type
			Amount received (Rs.): 0.09		

Total amount (Lacs) received for the past 3 years : 0.24

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-I	30	DC Shunt Motor with Loading Arrangement, DC Shunt Motor Coupled With Three phase Alternator, Single Phase Transformer, DC Series Motor with Loading Arrangement	6	K.SenthilKumar	Lab assistant	B.E
2	ELECTRICAL MACHINES LABORATORY – II	30	DC Shunt Motor Coupled With Three phase Salient Pole Alternator ,DC Shunt Motor Coupled With Three phase salient pole Alternator, DC Shunt Motor Coupled With	6	K.SenthilKumar	Lab assistant	B.E
3	CONTROL AND INSTRUMENTATION LABORATORY	30	Desktop computers, Mat Lab Latest Version	6	T.Karhikeyan	System Amin	B.E
4	POWER ELECTRONICS LABORATORY	30	Single phase Semi converter, Single phase Full converter, Step down chopper, Step up chopper, Single phase PWM Inverter, Three phase PWM Inverter, Buck converter, Boost	6	M.kalaivanan	Lab assistant	DEEE
5	POWER SYSTEM LABORATOR	30	Personal Computer, Laser Printer Dot matrix Printer,Software: EMTP / ETAP / CYME / MIPOWER / any Power system simulation software, Capacitors, C / C++ /	6	T.Karhikeyan	System Amin	B.E
6	Electric Circuits Laboratory	30	Regulated Power Supply (0-30V) ,Function Generator (MHz Range), Oscilloscope ,Digital Storage Oscilloscope, Decade Resistance Box, Decade Inductance Box	3	C.Vasu	Lab assistant	B.E
7	LINEAR AND DIGITAL CIRCUITS LABORATORY	30	Regulated Power supply . Cathode Ray Oscilloscope (CRO), Digital Multimeter , Function Generator , Analog and Digital IC Tester	3	C.Vasu	Lab assistant	B.E

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	ELECTRIC CIRCUITS LABORATORY	• Students wear laboratory coats/aprons and safety shoes. • First-aid box and fire extinguisher are available. • Proper insulation of electrical wiring. • Leather gloves are provided when required. • Fire sand bucket is available. • Safety guards are installed wherever applicable. • Loose clothing and jewellery are prohibited. • Laboratory rules are displayed. • MCB protection is provided. • Proper earthing is maintained.
2	ELECTRICAL MACHINES LABORATORY - I	Experiments are conducted under faculty supervision; proper earthing is maintained; machines are switched OFF before wiring changes; rotating parts are guarded; overload protection is provided. • Students wear laboratory coats/aprons and safety shoes. • First-aid box and fire extinguisher are available. • Electrical wiring is properly insulated. • Leather gloves are provided for handling equipment. • Loose clothing and jewellery are prohibited. • Laboratory safety instructions are displayed. • MCBs are installed for electrical protection. • Proper earthing is provided.
3	ELECTRICAL MACHINES LABORATORY – II	Experiments are conducted under faculty supervision; proper earthing is maintained; machines are switched OFF before wiring changes; rotating parts are guarded; overload protection is provided. • Students wear laboratory coats/aprons and safety shoes. • First-aid box and fire extinguisher are available. • Electrical wiring is properly insulated. • Leather gloves are provided for handling equipment. • Loose clothing and jewellery are prohibited. • Laboratory safety instructions are displayed. • MCBs are installed for electrical protection. • Proper earthing is provided.
4	LINEAR AND DIGITAL CIRCUITS LABORATORY	ESD precautions are followed; low-voltage power supplies are used; damaged components are immediately replaced. static mats, ESD wrist straps, fire extinguisher, first-aid box, insulated tools, and regulated power supplies. • Students wear laboratory coats/aprons and safety shoes. • First-aid box and fire extinguisher are available. • Proper insulation of electrical wiring. • Leather gloves are provided when required. • Fire sand bucket is available. • Safety guards are installed wherever applicable. • Loose clothing and jewellery are prohibited. • Laboratory rules are displayed. • MCB protection is provided. • Proper earthing is maintained.
5	CONTROL AND INSTRUMENTATION LABORATORY	Proper shutdown procedures; surge protection; restricted administrator access; cable management. UPS, surge protectors, air conditioning, smoke detector, fire extinguisher, first-aid box, cable organizers. • Students wear laboratory coats/aprons and safety shoes. • First-aid box and fire extinguisher are available. • Proper insulation of electrical wiring. • Leather gloves are provided when required. • Fire sand bucket is available. • Safety guards are installed wherever applicable. • Loose clothing and jewellery are prohibited. • Laboratory rules are displayed. • MCB protection is provided. • Proper earthing is maintained.
6	POWER ELECTRONICS LABORATORY	Capacitors are discharged before handling; insulated tools are used; proper isolation transformers are provided; experiments are performed only after instructor approval. CO ₂ fire extinguisher, first-aid box, discharge rods, insulating gloves, rubber mats, emergency OFF switch, MCB, RCCB, safety goggles. • Students wear laboratory coats/aprons and safety shoes. • First-aid box and fire extinguisher are available. • Proper insulation of electrical wiring. • Leather gloves are provided when required. • Fire sand bucket is available. • Safety guards are installed wherever applicable. • Loose clothing and jewellery are prohibited. • Laboratory rules are displayed. • MCB protection is provided. • Proper earthing is maintained.
7	Project, Innovation and Research & Development Laboratory	Risk assessment before experiments; access restricted to authorized users; PPE mandatory; experimental SOPs displayed. Fire extinguisher, first-aid box, emergency stop switch, PPE kit, spill kit, insulated gloves, eye wash bottle, emergency contact display. • Students wear laboratory coats/aprons and safety shoes. • First-aid box and fire extinguisher are available. • Proper insulation of electrical wiring. • Leather gloves are provided when required. • Fire sand bucket is available. • Safety guards are installed wherever applicable. • Loose clothing and jewellery are prohibited. • Laboratory rules are displayed. • MCB protection is provided. • Proper earthing is maintained.

D3. Project Laboratory/Research Laboratory

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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)	420	21	18	5	73
2024-25(CAYm1)	420	21	22	5	89
2025-26(CAY)	420	21	13	2	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 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 //	0	0	0	0	0	0	0	0
Library //	200000	155685.00	105000.00	92400.00	295000	257586	160000.00	130250.00
Laboratory equipment //	150000.00	113210.00	150000	83290.00	28000.00	26900	180000.00	132475.00
Teaching and non-teaching staff salary //	9350000.00	9119300.00	9000000.00	8513776.00	7550000.00	7279942.00	7920000.00	6951918.00
Outreach Programs //	52000.00	45750.00	25500.00	22745.00	25000.00	23300	20000	19740.00
R&D //	590000	568750.00	500000.00	467855.00	380000.00	349685	400000	394520.00
Training, Placement and Industry linkage //	280000.00	266955.00	250000.00	212600	200000.00	162500	170000	162455.00
SDGs //	540000.00	523600.00	500000.00	474555.00	250000	212400	295000	289456
Entrepreneurship //	25000	24560.00	19500.00	18795.00	22000	18560	18500	17350.00
Others, specify //	29050000.00	26776481.00	20000000.00	17025711.00	15000000.00	12936333.00	14000000.00	13015845.00
Total	40237000.00	37594291.00	30550000.00	26911727.00	23750000.00	21267206.00	23163500.00	21114009.00

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 //	50000	38560	60000	27500	15000	10500	32000	29550

Software //	20000	17000	30000	23480	18500	16500	18500	15600
SDGs //	79500	75660	79000	74570	72000	67870	62000	57800
Support for faculty development //	22000	15400	21000	22556	16500	14500	19800	16580
R & D //	87500	77984	76000	74564	60000	55000	76400	62000
Industrial Training, Industry expert, Internship //	40500	32566	40000	33540	35000	30000	35500	27500
Miscellaneous Expenses* //	1820000	1702000	1685000	1523054	1400000	1374564	1128945	982700
Total	2119500	1959170	1991000	1779264	1617000	1568934	1373145	1191730