

NATIONAL BOARD OF ACCREDITATION

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

Program Name : Electrical and Electronics Engineering	Discipline : Engineering & Technology
Level : Under Graduate	Tier : 1
Application No : 11299	Date of Submission : 28-11-2025

PART A- Profile of the Institute

A1.Name of the Institute : KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY	
Year of Establishment : 1998	Location of the Institute: Virudhunagar
A2. Institute Address :KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY VIRUDHUNAGAR TAMILNADU 626001	
City:VIRUDHUNAGAR	State:Tamil Nadu
Pin Code:626001	Website:www.kamarajengg.edu.in
Email:mail@kamarajengg.edu.in	Phone No(with STD Code):04549-278171
A3. Name and Address of the Affiliating University (if any):	
Name of the University :	City: Chennai
State : Tamil Nadu	Pin Code: 600025
A4. Type of the Institution : Self-Supported Institute	
A5. Ownership Status : Self financing	

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

- No. of UG programs: **9**
- No. of PG programs: **2**

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	2020	--	Artificial Intelligence and Data Science
2	Engineering & Technology	UG	Biotechnology	2002	--	Biotechnology
3	Engineering & Technology	UG	Civil Engineering	2009	--	Civil Engineering
4	Engineering & Technology	PG	Communication and Networks	2011	--	Electronics and Communication Engineering
5	Engineering & Technology	UG	Computer Science and Engineering	1998	--	Computer Science and Engineering
6	Engineering & Technology	UG	Electrical and Electronics Engineering	2002	--	Electrical and Electronics Engineering
7	Engineering & Technology	UG	Electronics & Communication Engineering	1998	--	Electronics and Communication Engineering
8	Engineering & Technology	UG	Information Technology	2001	--	Information Technology
9	Engineering & Technology	UG	Mechanical Engineering	2005	--	Mechanical Engineering
10	Engineering & Technology	UG	Mechatronics Engineering	2014	--	Mechatronics Engineering
11	Engineering & Technology	PG	Power Systems Engineering	2012	--	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.

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Computer Science and Engineering	Yes	Computer Science and 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 ARROVAL DETAILS	ACCREDITATION STATUS
1	Electrical and Electronics Engineering	UG	2002 / --	40	Yes	2021	30	2021	F.No. Southern/1-9321338833/2021/EOA Date:10-Jul-2021	Granted for 10 years for the period (2010-2020)

Sanctioned Intake for Last Five Years for the Power Systems Engineering	
Academic Year	Sanctioned Intake
2025-26	30
2024-25	30
2023-24	30
2022-23	30
2021-22	30
2020-21	60

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. D. Prince Winston
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)	30	30	30	30	30	60	90
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	28	27	18	25	23	26	19
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	5	4	7	7	10	10
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.	28	32	22	32	30	36	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)	30	28	0	93.33
2024-25 (CAYm1)	30	27	0	90.00
2023-24 (CAYm2)	30	18	0	60.00

Average [(ER1 + ER2 + ER3) / 3] = 81.11≡ 17.00

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).	37.00	70.00	100.00
B=No. of students who graduated from the program in the stipulated course duration	28.00	35.00	27.00
Success Rate (SR)= (B/A) * 100	75.68	50.00	27.00

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 50.89

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)	7.83	7.65	7.84
Y=Total no. of successful students	21.00	9.00	20.00
Z=Total no. of students appeared in the examination	27.00	18.00	25.00
API [X*(Y/Z)]	6.09	3.82	6.27

Average API[(AP1+AP2+AP3)/3] : 5.39

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.

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

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)	7.84	8.11	8.19
Y=Total no. of successful students	32.00	30.00	36.00
Z=Total no. of students appeared in the examination	32.00	30.00	36.00
API [X*(Y/Z)]:	7.84	8.11	8.19

Average API [(AP1 + AP2 + AP3)/3] : 8.05

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	37.00	70.00	100.00
X=No. of students placed	26.00	24.00	20.00
Y=No. of students admitted to higher studies	1.00	2.00	1.00
Z= No. of students taking up entrepreneurship	0.00	1.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	72.97	38.57	21.00

Average Placement Index = (P_1 + P_2 + P_3)/3: 44.18 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
1	Dr. D. Prince Winston	XXXXXXXX29E	Ph.D	Anna University	Power Electronics and Drives	02/05/2013	12.6	Assistant Professor	Professor	30/04/2019	Regular	Yes	
2	Dr. B. Gurukarthik Babu	XXXXXXXX93F	Ph.D	Anna University	Power Systems Engineering	27/05/2013	12.6	Assistant Professor	Associate Professor	01/07/2024	Regular	Yes	
3	Dr. G. Sakthivel	XXXXXXXX59B	Ph.D	Anna University	Power Electronics and Drives	28/11/2012	13	Assistant Professor	Assistant Professor		Regular	Yes	
4	Dr. R. Ganesan	XXXXXXXX37B	Ph.D	Anna University	Power Systems Engineering	06/06/2019	6.5	Assistant Professor	Assistant Professor		Regular	Yes	

5	Er. J. Uma Maheswari	XXXXXXXX18L	M.E.	Anna University	Power Electronics and Drives	01/12/2005	20	Assistant Professor	Assistant Professor		Regular	Yes	
6	Er. T. Hari Prasath	XXXXXXXX05C	M.E.	Anna University	Industry Safety Engineering	14/11/2018	7	Assistant Professor	Assistant Professor		Regular	Yes	
7	Dr. A. Rajavel	XXXXXXXX21K	Ph.D	Anna University	Embedded System Design	26/05/2006	19.3	Assistant Professor	Assistant Professor		Regular	No	29/08/2025
8	Er. S. Jegan	XXXXXXXX02G	M.E.	Anna University	Power Systems Engineering	01/07/2015	9	Assistant Professor	Assistant Professor		Regular	No	28/06/2024
9	Dr. K. Ganesan	XXXXXXXX56Q	Ph.D	Anna University	Power Systems Engineering	02/05/2017	7.1	Assistant Professor	Assistant Professor		Regular	No	28/06/2024

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	33	33	33
UG1.C	33	33	33
UG1.D	33	33	66
UG1: Electrical and Electronics Engineering	99	99	132
PG1.A	6	6	9
PG1.B	6	9	9
PG1: Power Systems Engineering	12	15	18
DS=Total no. of students in all UG and PG programs in the Department	111	114	150
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= 111	S2= 114	S3= 150
DF=Total no. of faculty members in the Department	6	7	9
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= 6	F2= 7	F3= 9
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	1	2
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 18.50	SFR2= 19.00	SFR3= 21.43
Average SFR for 3 years	SFR= 19.64		

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)	3	3	5.00	21.00
2024-25(CAYm1)	4	3	5.00	26.00
2023-24(CAYm2)	4	5	7.00	21.43

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 \times$ 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 = $2/9 \times$ 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 = $6/9 \times$ 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.

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	1.00	1.00	1.00	1.00	3.00	4.00
2024-25	1.00	1.00	1.00	1.00	3.00	5.00
2023-24	1.00	1.00	1.00	0.00	5.00	8.00
Average	RF1=1.00	AF1=1.00	RF2=1.00	AF2=0.67	RF2=3.67	AF2=5.67

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

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. T. Karthick	Quantanics Techserv Private Limited, Madurai	Director	IoT and its Applications	50.00

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. R. Pradeep	Power Systems Engineer	Power Projects, Tiruppur	ETAP Software	50.00

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. T. Karthick	Quantanics Techserv Private Limited, Madurai	Director	IoT and Machine Learning	50.00

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	24	24	17
2	No. of peer reviewed conference papers published	9	9	11
3	No. of books/book chapters published	2	1	1

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

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. B. Gurukarthik Babu		Electrical and Electronics Engineering	An IoT Enhanced Daylighting System by utilizing Industrial and Electronic Waste for Eco-friendly Clean Power Generation	Tamil Nadu State Council for Science and Technology	3 Months	0.08
Dr. D. Prince Winston		Electrical and Electronics Engineering	Sustainable Recycling and Reuse of Solar PV Panels and Lithium-ion Batteries (King of Recycling)	Naan mudhalvan niral thiruvizha - Tamil Nadu Skill Development Corporation (TNSDC)	3 Months	0.10
						Amount received (Rs.):0.18

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. D. Prince Winston	Dr. S. Nisha Rani	Electrical and Electronics Engineering	Children Centric Outreach Programme	The National Council for Science and Technology Communication (NCSTC) - Department of Science and Technology (DST)	Three Weeks	14.05
Dr. B. Gurukarthik Babu	Dr. D. Prince Winston	Electrical and Electronics Engineering	An Empirical Based Intelligent Safety Approach for Reducing Two-Wheeler Crashes in Urban Area	Institution of Engineers (India)	Six Months	0.66
Dr. B. Gurukarthik Babu		Electrical and Electronics Engineering	An IoT Enhanced Daylighting System by utilizing Industrial and Electronic Waste for Eco-friendly Clean Power Generation	Naan mudhalvan niral thiruvizha - Tamil Nadu Skill Development Corporation (TNSDC)	Three Months	0.10
Dr. B. Gurukarthik Babu		Electrical and Electronics Engineering	An IoT-enabled Eco-friendly Approach for the Retention of Water In Drought Agricultural Fields using Superabsorbent Polymers Made From Waste Pineapple (Ananascomosus) Peel	Ministry of Small and Medium Scale Enterprises (MSME)	Twelve Months	6.00
Dr. D. Prince Winston		Electrical and Electronics Engineering	Development of Hardware Interface to generate Electric Power from Parked Electric Vehicle	Ministry of Small and Medium Scale Enterprises (MSME)	Twelve Months	11.76
Dr. D. Prince Winston		Electrical and Electronics Engineering	Development of Eco-friendly Battery Balancing Kit for Electric vehicle Applications	Ministry of Small and Medium Scale Enterprises (MSME)	Twelve Months	10.50
						Amount received (Rs.):43.07

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. D. Prince Winston		Electrical and Electronics Engineering	Development of eco-friendly battery balancing kit for Electrical vehicle applications	Tamil Nadu State Council for Science and Technology	Three Months	0.08
Dr. B. Gurukarthik Babu	Dr. D. Prince Winston	Electrical and Electronics Engineering	IoT Supervised Machine Learning Module for Palatable Water Production in PV/T System using Industrial Sludges and Nautical Husks	Institution of Engineers (India)	Six Months	0.48
						Amount received (Rs.):0.56

Total Amount (Lacs) Received for the Past 3 Years: 43.81**Note*:**

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

C8. Consultancy Work

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. D. Prince Winston		Electrical and Electronics Engineering	Development of temperature monitoring system with alarm and large size LED display	Kani Dhall Mills, Virudhunagar	Six Months	0.06
Dr. D. Prince Winston		Electrical and Electronics Engineering	Magnetic Flux Testing Charges	Paprika Oleo (India) Private Limited, Virudhunagar	Eight Months	0.06
						Amount received (Rs.):0.12

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. D. Prince Winston		Electrical and Electronics Engineering	Magnetic Flux Testing Charges	Paprika Oleo (India) Private Limited, Virudhunagar	Eight Months	0.05
Dr. D. Prince Winston		Electrical and Electronics Engineering	Magnetic Flux Testing Charges	Paprika Oleo (India) Private Limited, Virudhunagar	Eight Months	0.05
						Amount received (Rs.):0.10

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. D. Prince Winston		Electrical and Electronics Engineering	Magnetic Flux Testing Charges	Paprika Oleo (India) Private Limited, Virudhunagar	Eight Months	0.05
						Amount received (Rs.):0.05

Total amount (Lacs) received for the past 3 years: 0.27

Note*:

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

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

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

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr. G. Sakthivel	Solar-Powered Electric Vehicle with Dynamic Solar Panel Reconfiguration for Optimal Power Generation	Twelve Months	5.00	3.34	Patent, Product, Conference Presentation,
			Amount received (Rs.): 5.00		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr. G. Sakthivel	Performance Improvement in Solar PV FED BLDC EV Motor	Twelve Months	0.30	0.30	Patent, Product
Dr. D. Prince Winston	Design And Development of Smart Energy Meter with Protection Circuit	Three Months	0.03	0.03	Product
Dr. D. Prince Winston	Automatic Heat Extinguishing Iron Box	Three Months	0.03	0.03	Product
Dr. D. Prince Winston	Smart Energy Efficient eWater-Cooling System	Three Months	0.03	0.03	Product
Dr. D. Prince Winston	Design and Development of Energy Saver Device for Air Conditioner	Three Months	0.10	0.10	Product
			Amount received (Rs.): 0.49		

(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. B. Gurukarthik Babu	Design and Fabrication of Flippy Bifacial Solar PV Module	Twelve Months	0.25	0.25	Patent, Product
			Amount received (Rs.): 0.25		

Total amount (Lacs) received for the past 3 years : 5.74

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 I Laboratory	3	• DC Shunt Motor # DC Shunt Generator:5HP,220V, 13.6A,1500rpm • DC Shunt Motor # DC Shunt Generator:5HP,220V, 13.6A,1500rpm	2024-2025 OD	Mr.A.Tamilvanan	UPS Maintenanc	D.E.C.E., B.E.,
2	Electrical Machines II Laboratory	3	• 3Φ Squirrel Cage & Slip Ring InductionMotor:5HP,415V,8.2A,1400rpm • 3Φ Synchronous Motor	2024-2025 OD	Mr.A.Tamilvanan	UPS Maintenanc	D.E.C.E.,B.E.,
3	Linear and Digital Integrated Circuits Laboratory / Power	3	• Cathode Ray Oscilloscope: 30MHz • Function Generator: 3MHz • Digital IC Tester:MiniMax Make	2024-2025 EVI	Mr. P. Saravanar	Technician	D.E.C.E.
4	Electronic Devices and Circuits Laboratory/ Electric Circuits	3	• Digital Storage Oscilloscope: 25MHz • Cathode Ray Oscilloscope: 30MHz • Function Generator 3MHz	2024-2025 OD	Mr.M.Shanmuga	Technician	B.E.,
5	Power System Simulation Laboratory	1	• HCL/INTEL CORE i3-550 /3.2 GHZ/ 2GB RAM/500GB SATA HARD DISK • ACER iCORE 3 QUAD CORE	2024-2025 OD	Mr. P. Saravanar	Technician	D.E.C.E.
6	Control & Instrumentation Laboratory	3	• Process Simulator Kit • Digital Storage Oscilloscope • AC & DC Switching Control System • PID	2024-2025 EVI	Mr.M.Shanmuga	Technician	B.E.,
7	Microprocessor & Microcontroller Laboratory/	3	• 8085 Microprocessor Trainer kit • 8051 Micro Controller Trainer Kit • 8255, 8254, 8250, 8279, 8254 Interface Board	2024-2025 OD	Mr.M.Shanmuga	Technician	B.E.,
8	Renewable Energy Laboratory	3	• Battery Storage System with Charge and Discharge Control • Micro Based Energy Converter 500W Capacity	6 Periods/Wee	Mr. P. Saravanar	Technician	D.E.C.E.
9	Project & Research Laboratory	1	• Power Clamp: Power and Harmonics Tester • PIC Microcontroller • Universal Programmable Adapter	Students can a	Mr. P. Saravanar	Technician	D.E.C.E.

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. Appropriate Fire Extinguisher (Dry Powder) is available. 2. MCBs are provided in work benches. 3. Rubber mats are positioned in the vicinity of the Panel Boards. 4. Buckets with dry sand are placed at prominent places. 5. First Aid boxes are available. 6. Insulated Terminals are used in the workbench. 7. All machines are properly erected and earthed. 8. Well furnished wooden tables and stools are provided for better insulation against shock hazards.
2	Control and Instrumentation Laboratory	1. Appropriate Fire Extinguisher (Dry Powder) is available. 2. MCBs are provided in work benches. 3. Proper earthing is provided for electrical points and loads. 4. First Aid boxes are available. 5. Well furnished wooden tables and stools are provided for better insulation against shock hazards.
3	Linear and Digital Integrated Circuits Laboratory	1. Appropriate Fire Extinguisher (Dry Powder) is available. 2. MCBs are provided in work benches. 3. Proper earthing is provided for electrical points and loads. 4. First Aid boxes are available. 5. Well furnished wooden tables and stools are provided for better insulation against shock hazards
4	Power Electronics Laboratory	1. Appropriate Fire Extinguisher (Dry Powder) is available. 2. MCBs are provided in work benches. 3. Proper earthing is provided for electrical points and loads. 4. First Aid boxes are available. 5. Well furnished wooden tables and stools are provided for better insulation against shock hazards
5	Renewable Energy Laboratory	1. Appropriate Fire Extinguisher (Dry Powder) is available. 2. MCBs are provided in work benches. 3. Proper earthing is provided for electrical points and loads. 4. First Aid boxes are available. 5. Well furnished wooden tables and stools are provided for better insulation against shock hazards
6	Electronic Devices and Circuits Laboratory	1. Appropriate Fire Extinguisher (Dry Powder) is available. 2. MCBs are provided in work benches. 3. Proper earthing is provided for electrical points and loads. 4. First Aid boxes are available. 5. Well furnished wooden tables and stools are provided for better insulation against shock hazards
7	Electric Circuits Laboratory	1. Appropriate Fire Extinguisher (Dry Powder) is available. 2. MCBs are provided in work benches. 3. Proper earthing is provided for electrical points and loads. 4. First Aid boxes are available. 5. Well furnished wooden tables and stools are provided for better insulation against shock hazards
8	Engineering Practices Laboratory	1. Appropriate Fire Extinguisher (Dry Powder) is available. 2. MCBs are provided in work benches. 3. Proper earthing is provided for electrical points and loads. 4. First Aid boxes are available. 5. Well furnished wooden tables and stools are provided for better insulation against shock hazards

9	Microprocessor and Microcontroller Laboratory	1. Appropriate Fire Extinguisher (Dry Powder) is available. 2. MCBs are provided in work benches. 3. Proper earthing is provided for electrical points and loads. 4. First Aid boxes are available. 5. Well furnished wooden tables and stools are provided for better insulation against shock hazards
10	Power System Simulation Laboratory	1. Appropriate Fire Extinguisher (Dry Powder) is available. 2. MCBs are provided. 3. Concealed cable, proper wiring and LAN network connection. 4. Computer Power Point terminals are provided with proper earthing. 5. Antivirus Software is available and renewed periodically. 6. Any software cannot be installed without approval from System Administrator
11	Project & Research Laboratory	1. Appropriate Fire Extinguisher (Dry Powder) is available. 2. MCBs are provided. 3. Concealed cable, proper wiring and LAN network connection. 4. Computer Power Point terminals are provided with proper earthing. 5. Antivirus Software is available and renewed periodically. 6. Any software cannot be installed without approval from System Administrator

D3. Project Laboratory/Research Laboratory

Project Laboratory				
S. N.	Name of the Facility	Details	Utilization	Relevance to POs/PSOs
1.	Solar Power Meter	Model No-936	Students can access on all working days	PO3,PO4,PO5
2.	Air Flow Meter	MECO		PO3,PO4,PO5
3.	LEM based Current Sensor	Cettrico Engg Solutions		PO3,PO4,PO11
4.	Solar Energy Meters	Everon		PO3, PO4,PO11
5.	Battery Cell Analyser	TC-XPro		PO3, PO4,PO11
6.	Jetson NANO	NVIDIA		PO3, PO4,PO11
7.	Standalone Inverter	Minniyal		PO3, PO4,PO11
8.	Solar MPPT Charger	Choice		PO3, PO4,PO11
9.	Battery Spot Welding machine	Nextec		PO3, PO4,PO11
10.	1 kW inverter	Havells		PO3, PO4,PO11

Research Laboratory				
S. N.	Name of the Facility	Details	Utilization	Relevance to POs/PSOs
1.	Thermal Imaging Camera	FLIR E4 Serial No 639021750 Camera Size-80'x60'	Students can access on all working days	PO3,PO5, PSO2
2.	220kV Transmission Line Indicator	VI Microsystems Pvt Ltd	Students can access on all working days	PO3,PO4,PSO1
3.	DC-DC Boost Convertor + Fuel Cell	VI Microsystems Pvt Ltd	Students can access on all working days	PO2, PO3 ,PSO1
4.	VSole Solar On Grid Inverter	Smart Electricals	Students can access on all working days	PO3,PO4,PO11
5.	Wireless thermal imager	Testo	Students can access on all working days	PO3, PO5, PSO2
6.	Harmonic Tester	MECO	Students can access on all working days	PO3, PO5, PSO2
7.	Battery Tester	Hioki	Students can access on all working days	PO3, PO5, PSO2
8.	Battery Analyser	SEMCO Infratech	Students can access on all working days	PO3, PO5, PSO2
9.	Lithium Ion Battery Pack		Students can access on all working days	PO3, PO5, PSO2

	10.	Lithium Ferrophosphate Battery Pack	JASCON	Students can access on all working days	PO3, PO5, PSO2	
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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)	660	33	26	12	70
2024-25(CAYm1)	720	36	27	13	67
2025-26(CAY)	720	36	27	12	67

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

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

Items	Budgeted in 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	23426000	16530425	17060000	13880468	12825000	10253590	8300000	8247809
Library	430000	110182	580000	274424	450000	463553	325000	165987
Laboratory equipment	19822000	11971004	18297000	22135562	14365000	5753703	5263000	3583877
Teaching and non-teaching staff salary	172330000	99617568	126089000	132455285	116000000	114738143	119580000	117551275
Outreach Programs	7700000	5387291	9628000	9554745	4000000	3939209	3100000	3198596
R&D	600000	448347	5600000	1073557	2000000	1358483	1000000	451052
Training, Placement and Industry linkage	11640000	6276467	11733000	9872295	9346000	5786240	8858000	8516392
SDGs	4050000	1742327	3750000	3645374	1250000	1256004	1260000	1029448
Entrepreneurship	100000	780	200000	187387	500000	164030	150000	140488
Others, specify	64455000	29399216	48711480	52546223	39106000	41070536	40850000	32569912
Total	304553000	171483607	241648480	245625320	199842000	184783491	188686000	175454836

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	1500000	274243	640000	989776	860000	766246	225000	200664
Software	20000	4240	10000	6743	5000	3855	10000	7425
SDGs	200000	76585	0	0	0	0	0	0
Support for faculty development	100000	26718	64000	23277	18000	14477	20000	12917
R & D	500000	138152	50000	51122	100000	80862	46000	36801
Industrial Training, Industry expert,	1000000	275889	500000	470109	430000	344419	800000	713054

Miscellaneous Expenses*	15000000	5661304	11390000	9021603	11087000	9397942	14000000	12429784
Total	18320000	6457131	12654000	10562630	12500000	10607801	15101000	13400645