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: 11178	**Date of Submission**: 16-11-2025

PART A- Profile of the Institute

A1.Name of the Institute: Kathir College of Engineering	
Year of Establishment : 2008	Location of the Institute: 11068028645299037 770839140571454
A2. Institute Address:"Wisdom Tree", Avinashi Road, Neelambur, Coimbatore.	
City:Coimbotore	State:Tamil Nadu
Pin Code:641062	Website:www.kathir.ac.in
Email:principal@kathir.ac.in	Phone No(with STD Code):0422-2203778
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: Self-Supported Institute	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **7**
- No. of PG programs: **6**

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	PG	Applied Electronics	2013	2024	Electronics and Communication Engineering
2	Engineering & Technology	UG	Artificial Intelligence and Data Science	2020	--	Artificial Intelligence and Data Science
3	Engineering & Technology	UG	Computer & Communication Engineering	2023	--	Computer and Communication Engineering
4	Engineering & Technology	PG	Computer Science and Engineering	2012	--	Computer Science and Engineering
5	Engineering & Technology	UG	Computer Science and Engineering	2008	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2024	--	Computer Science and Engineering
7	Engineering & Technology	UG	Electrical and Electronics Engineering	2008	--	Electrical and Electronics Engineering

8	Engineering & Technology	UG	Electronics & Communication Engineering	2008	--	Electronics and Communication Engineering
9	Engineering & Technology	PG	Manufacturing Engineering	2013	--	Mechanical Engineering
10	Engineering & Technology	UG	Mechanical Engineering	2009	--	Mechanical Engineering
11	Engineering & Technology	PG	Power Electronics & Drives	2013	--	Electrical and Electronics Engineering
12	Engineering & Technology	PG	VLSI Design & Embedded Systems	2025	--	Electronics and Communication Engineering
13	Management	PG	Master of Business Administration	2009	--	Management

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
Mechanical Engineering	No	Mechanical Engineering	UG
Electrical and Electronics Engineering	No	Electrical and Electronics Engineering	UG
Electronics and Communication Engineering	No	Electronics & Communication 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	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Electrical and Electronics Engineering	UG	2008 / --	60	No	NA	60	2008	F.No.Southern/1-44639335976/2025/EOA	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.V.Gomathy
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	60	60	48	32	35	3	7
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	6	6	3	6	6	0
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	2	8	2	0	2	45	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	62	74	56	35	43	54	7

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	62	0	103.33
2024-25 (CAYm1)	60	60	2	103.33
2023-24 (CAYm2)	60	48	0	80.00

Average [(ER1 + ER2 + ER3) / 3] = 95.55≡ 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).	66.00	66.00	60.00
B=No. of students who graduated from the program in the stipulated course duration	11.00	41.00	6.00
Success Rate (SR)= (B/A) * 100	16.67	62.12	10.00

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 29.60

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)	7.32	7.59	7.39
Y=Total no. of successful students	56.00	38.00	25.00
Z=Total no. of students appeared in the examination	56.00	38.00	25.00
API [X*(Y/Z)]	7.32	7.59	7.39

Average API[(AP1+AP2+AP3)/3] : 7.43

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)	7.69	7.81	7.10
Y=Total no. of successful students	44.00	28.00	11.00
Z=Total no. of students appeared in the examination	44.00	28.00	11.00
API [X * (Y/Z)]	7.69	7.81	7.10

Average API [(AP1 + AP2 + AP3)/3] : 7.53

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)	7.96	7.84	6.10
Y=Total no. of successful students	28.00	11.00	41.00
Z=Total no. of students appeared in the examination	28.00	11.00	41.00
API [X*(Y/Z)]:	7.96	7.84	6.10

Average API [(AP1 + AP2 + AP3)/3] : 7.30

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	66.00	66.00	60.00
X=No. of students placed	11.00	41.00	6.00
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):	16.67	62.12	10.00

Average Placement Index = (P_1 + P_2 + P_3)/3: 29.60 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.V.Kalaipoonguzhali	XXXXXXX48Q	M.E. and Ph.D.	ANNA UNIVERSITY	Signal Processing and Communication	01/08/2024	1.3	Associate Professor	Professor	20/01/2025	Regular	Yes		No
2	Dr.T.Sivakumar	XXXXXXX39D	M.E. and Ph.D.	ANNAMALAI UNIVERSITY	MECHANICAL ENGINEERING	05/05/2012	13.6	Assistant Professor	Associate Professor	07/01/2019	Regular	Yes		No
3	Dr.G.Mahendran	XXXXXXX47D	M.E. and Ph.D.	ANNA UNIVERSITY	Electrical Engineering	22/01/2021	4.3	Assistant Professor	Associate Professor	01/08/2023	Regular	No	29/04/2025	No
4	Dr.B.Prabakaran	XXXXXXX69C	M.E. and Ph.D.	ANNA UNIVERSITY	Electrical Engineering	30/01/2021	3.5	Assistant Professor	Associate Professor	01/04/2022	Regular	No	30/07/2024	No
5	Mr.N.Sathishkumar	XXXXXXX46A	M.E.	KARPAGAM UNIVERSITY	POWER ELECTRONICS AND DRIVES	01/06/2020	5.5	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Mr.K.Syril Jenifer Paul	XXXXXXX58A	M.E.	ANNA UNIVERSITY	APPLIED ELECTRONICS	10/08/2022	3.3	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Ms. N. Saranya	XXXXXXX69C	M.E.	ANNA UNIVERSITY	POWER ELECTRONICS AND DRIVES	22/08/2022	3.2	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Mr.D.Ramesh	XXXXXXX09K	M.E.	KARPAGAM UNIVERSITY	POWER ELECTRONICS AND DRIVES	02/08/2023	2.3	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Ms.P.Dharani	XXXXXXX32K	M.E.	ANNA UNIVERSITY	CONTROL AND INSTRUMENTATION ENGINEERING	01/08/2023	2.3	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Ms. C. Sivaranjani	XXXXXXX29R	M.E.	ANNA UNIVERSITY	EMBEDDED SYSTEM TECHNOLOGIES	02/03/2023	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Ms.M.Swapna	XXXXXXX63P	M.E.	ANNA UNIVERSITY	POWER ELECTRONICS AND DRIVES	08/07/2019	6.4	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Ms.S.Kalpana	XXXXXXX40Q	M.E.	ANNA UNIVERSITY	POWER ELECTRONICS AND DRIVES	14/08/2015	10.2	Assistant Professor	Assistant Professor		Regular	Yes		No

13	Mr.M.Ramkumar	XXXXXXX61A	M.E.	ANNA UNIVERSITY	POWER ELECTRONICS AND DRIVES	11/06/2010	14.9	Assistant Professor	Assistant Professor		Regular	No	03/04/2025	No
14	Ms.M.Jeyabharathi	XXXXXXX07P	M.E.	ANNA UNIVERSITY	POWER ELECTRONICS AND DRIVES	23/12/2016	7.7	Assistant Professor	Assistant Professor		Regular	No	30/07/2024	No
15	Ms. S.N.Sathya	XXXXXXX44H	M.E.	ANNA UNIVERSITY	POWER ELECTRONICS AND DRIVES	14/06/2013	12.3	Assistant Professor	Assistant Professor		Regular	No	30/09/2025	No
16	Dr.V.Gomathy	XXXXXXX07D	M.E. and Ph.D.	ANNA UNIVERSITY	POWER ELECTRONICS ,POWER SYSTEMS, RENEWABLE ENERGY,SOFT COMPUTING	10/08/2022	3.3	Professor	Professor		Regular	Yes		Yes
17	Dr.L.Nagarajan	XXXXXXX99F	M.E. and Ph.D.	ANNA UNIVERSITY	POWER ELECTRONICS AND DRIVES	18/04/2022	3.1	Assistant Professor	Associate Professor	03/10/2022	Regular	No	14/06/2025	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 Department1

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

Description	**CAY(2025-26)**	**CAYm1 (2024-25)**	**CAYm2 (2023-24)**
UG1.B	66	66	63
UG1.C	66	62	66
UG1.D	62	66	66
UG1: Electrical and Electronics Engineering	**194**	**194**	**195**
PG1.A	6	6	6

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
PG1.B	6	6	18
PG1: Power Electronics & Drives	**12**	**12**	**24**
DS=Total no. of students in all UG and PG programs in the Department	206	206	219
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=** 206	**S2=** 206	**S3=** 219
DF=Total no. of faculty members in the Department	11	13	16
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=** 11	**F2=** 13	**F3=** 16
FF=The faculty members in F who have a 100% teaching load in the first-year courses	1	1	1
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 20.60**	**SFR2= 17.17**	**SFR3= 14.60**
Average SFR for 3 years	**SFR= 17.46**		

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)	3	8	10.00	15.50
2024-25(CAYm1)	4	9	10.00	19.00
2023-24(CAYm2)	5	11	10.00	23.50

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	1.00	6.00	8.00
2024-25	1.00	1.00	2.00	3.00	6.00	9.00
2023-24	1.00	1.00	2.00	4.00	7.00	11.00

Average	RF1=1.00	AF1=1.33	RF2=2.00	AF2=2.67	RF2=6.33	AF2=9.33

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	NA	NA	NA	NA	0.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	NA	NA	NA	NA	0.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	NA	NA	NA	NA	0.00

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	9	8	7
2	No. of peer reviewed conference papers published	2	1	3
3	No. of books/book chapters published	3	1	2

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.L.Nagarajan	Mr.K.Syril Jenifer Paul	EEE	Low -Cost Portable Electric Fish Scalper	Tamilnadu State Council for Science and Technology (TNSCST)	3 Months	0.08
						Amount received (Rs.):0.08

(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.L.Nagarajan	Mr.K.Syril Jenifer Paul	EEE	Electric Vehicle Battery Swapping Machine	Nehru Group of Institutions New Generation Innovation and Entrepreneurship Development Centre NGI New Gen IEDC Supported by NSTEDB	1 Year	2.75
						Amount received (Rs.):2.75

(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.Ramkumar	Ms.S.N.Sathya	EEE	Condition Monitoring of HV Transformers Using Real-Time Sensor Data Acquisition	Vishal Precision product pvt Ltd	1.5 Years	3.76
						Amount received (Rs.):3.76

Total Amount (Lacs) Received for the Past 3 Years: 6.59

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.L.Nagarajan	Mr.K.Syril Jenifer Paul	EEE	Microcontroller-Based Power Quality Analyzer with Data Logging	Cad opt Technologie, Coimbatore	6 Months	1.81
						Amount received (Rs.):1.81

(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.V.Gomathy	Ms.N.Saranya	EEE	Industry-Oriented Training on Smartphone Repair and Field-Level Networking & Data Storage Services	Raavan Technologies and Elite Incorporation Tamilnadu	6 Months	7.86
						Amount received (Rs.):7.86

(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.T.Sivakumar	Ms.S.N.Sathya	EEE	Improving the Solar PV Power Quality in Distributed Power System by using Augmented Intrinsic Algorithm in DVR	Power Lab Instruments Perungudi Chennai – 600 096	2 Years	2.32
Dr.L.Nagarajan	Mr.K.Syril Jenifer Paul	EEE	Energy auditing-SNS Instituitions	Non Government	1 Week	0.03
						Amount received (Rs.):2.35

Total amount (Lacs) received for the past 3 years: 12.02

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
Ms.N.Saranya	Embedded-Based Power Quality Analyzer for Industrial Power Systems	6 Months	1.12	1.00	Experiential Learning
Ms.P.Dharani	Development of a Power Quality Analyzer for Renewable Energy-Integrated Systems	6 Months	1.26	1.00	Experiential Learning
Mr.Syril Jenifer Paul	Design and Development of a Smart Power Quality Monitoring System for Distribution Networks	1 Year	4.24	4.15	Energy audit report prepared
			Amount received (Rs.): 6.62		

(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.V.Gomathy	Hybrid Deep Learning Modelfor Enhancing the Streaming Efficiency of 6G Enabled Massive IoT Systems	8 Months	0.25	0.22	Journal of personal Wireless communications, https://doi.org/10.1007/s11277-024-11249-2
Ms.N.Saranya	Solar Powered Transceiver For Wireless Sensor Network	7 Months	0.30	0.27	Published a patent on 10/05/2024
Dr.V.Gomathy, Ms.N.Saranya	Intelligent Inspection System for Industrial Goods Utilizing Machine Learning Algorithm	8 Months	0.30	0.30	Published a patent on 12-04-2024
			Amount received (Rs.): 0.85		

(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.G.Mahendran	Solar PV fed brushless drive with optical encoder for agriculture applications using IoT and FPGA	6 Months	0.25	0.24	Journal Optical and Quantum Electronics, 54, 715 (2022). https://doi.org/10.1007/s11082-022-04065-0
Dr.G.Mahendran	A Review on Artificial Intelligence Based E-Learning System	3 Months	0.09	0.07	Conference paper published in Pervasive Computing and Social Networking
Mr. L. Nagarajan	Erection and Smart Energy Utilization from Renewable sources	2 Days	0.25	0.25	Understand renewable energy systems such as solar, wind, and hybrid sources, including their erection, installation, and operational principles
Dr.B.Prabakaran,Dr.G.Mahendran	A Machine learning based smart pillow for preventing snore	7 Months	0.27	0.24	Published a patent on 17.06.2022
Mr.N.Sathishkumar	An Artificial Intelligence Based Infant Emotion Prediction Using Wall Mounted Stickers	8 months	0.32	0.27	4. Published a patent on 29/07/2022
			Amount received (Rs.): 1.18		

Total amount (Lacs) received for the past 3 years : 8.65

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	DC Machines Laboratory	3	1. DC Shunt Motor with Loading Arrangement 2. DC Shunt Motor Coupled With Three phase Alternator	4 Hours	Mr.K.Tamilselvan	Lab Technician	DEEE
2	AC Machines Laboratory	3	1. DC Shunt Motor Coupled With Three phase Salient Pole Alternator 2. DC Shunt Motor Coupled	4 Hours	Mr.K.Tamilselvan	Lab Technician	DEEE
3	Microprocessor and Microcontr oller laboratory	3	1.8085 Trainer kit with power supply 2.8051 Microcontroller trainer kit with power supply 3. ADC	4 Hours	Mr.K.Tamilselvan	Lab Technician	DEEE
4	Power Electronics Laboratory	3	1. SCR, TRIAC, IGBT, MOSFET 2. Single phase Semi converter 3. Single phase Full converter 4.	4 Hours	Mr.S.Myilananthan	Lab Technician	DME
5	Control and Instrumen tation Laboratory	1	1. Desktop 2. Mat Lab Latest Version	4 Hours	S.Myilananthan	Lab Technician	DME

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Engineering Practices Laboratory	• Fire extinguishers and fire blanket provided • First aid box and eye wash station available • Emergency exits clearly marked • Machine guards and protective shields installed • Electrical panels properly grounded • Adequate illumination and ventilation ensured
2	Electric Circuits Laboratory	• Fire extinguishers and first aid facilities available • Proper earthing and grounding of all equipment • Insulated wiring and protected terminals provided • Emergency power isolation switches installed • Clear access maintained to electrical panels
3	Electronic Devices and Circuits Laboratory	• Fire extinguishers and first aid box provided • Proper grounding of electronic instruments • ESD-safe workstations and insulated benches • Emergency exits clearly indicated • Adequate lighting and ventilation
4	DC Machines Laboratory	• Fire extinguishers and emergency exits provided • Protective guards for rotating machines • Proper earthing of machines and control panels • Emergency stop switches installed • Safe clearance around machines maintained
5	C Programming and Data Structures Laboratory	• Fire extinguishers and first aid facilities available • Electrical safety through stabilized power supply • Proper cable management and insulation • Adequate ventilation and illumination • Emergency exits clearly marked
6	AC Machines Laboratory	• Fire extinguishers and emergency exits provided • Mechanical guards on rotating parts • Proper grounding of high-power equipment • Emergency shutdown mechanisms installed • Clear access to control panels maintained
7	Linear and Digital Circuits Laboratory	• Fire extinguishers and first aid box provided • Proper grounding and insulation of power supplies • Emergency isolation switches available • Adequate lighting and ventilation • Clearly marked emergency exits
8	Microprocessor and Microcontroller Laboratory	• Fire extinguishers and first aid facilities available • Grounded power supplies and trainer kits • ESD protection arrangements provided • Emergency exits clearly marked • Adequate ventilation and lighting
9	Power Electronics Laboratory	• Fire extinguishers and emergency exits provided • Insulated workstations and tools available • Proper grounding of converters and panels • Emergency cut-off switches installed • Safe clearance around high-voltage equipment
10	Control and Instrumentation Laboratory	• Fire extinguishers and first aid box provided • Grounded control panels and instruments • Emergency shutdown facilities installed • Proper cable routing and insulation • Adequate ventilation and illumination

11	Power System Laboratory	• Fire extinguishers and emergency exits provided • Proper grounding of high-voltage equipment • Emergency isolation and protection systems available • Clear labeling of panels and equipment • Safe clearance maintained around panels

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)	300	15	12	4	69
2024-25(CAYm1)	360	18	13	5	63
2025-26(CAY)	480	24	21	7	76

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 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Infrastructure Built-Up	0	0	10000000	10675000	0	0	0	0
Library	150000	142575	150000	121763	100000	59653	150000	195800
Laboratory equipment	4500000	4609244	7000000	6710283	4500000	5057196	500000	912285
Teaching and non-teaching staff salary	52000000	38880000	41000000	41282950	45000000	44497107	45000000	45080681
Outreach Programs	1000000	721860	1200000	1393122	1000000	834251	1000000	1167221
R&D	100000	45860	100000	62192	100000	69102	100000	80822
Training, Placement and Industry linkage	1800000	1244567	1500000	1623173	300000	303812	900000	1100750
SDGs	1200000	934520	1000000	1228064	800000	712763	600000	691263

Entrepreneurship	200000	143550	300000	576393	100000	75953	200000	275187
Others, specify	50000000	42253324	24000000	25080086	20000000	20444209	20000000	19785001
Total	**110950000**	**88975500**	**86250000**	**88753026**	**71900000**	**72054046**	**68450000**	**69289010**

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 2024-2025**	**Actual Expenses in 2024-2025 till**	**Budgeted in 2023-2024**	**Actual Expenses in 2023-2024 till**	**Budgeted in 2022-2023**	**Actual Expenses in 2022-2023 till**	**Budgeted in 2021-2022**	**Actual Expenses in 2021-2022 till**
Laboratory equipment	750000	672200	600000	561600	400000	346250	120000	80150
Software	0	0	0	0	0	0	0	0
SDGs	30000	21250	30000	24200	30000	25000	25000	22000
Support for faculty development	125000	103230	200000	156230	150000	32750	175000	135450
R & D	15000	10750	15000	9750	15000	10840	15000	7840
Industrial Training, Industry expert, Internship	250000	220000	250000	200000	50000	29150	100000	69500
Miscellaneous Expenses*	30000	13500	20000	11200	20000	12500	25000	16500
Total	**1200000**	**1040930**	**1115000**	**962980**	**665000**	**456490**	**460000**	**331440**