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: 10487	**Date of Submission**: 09-04-2025

PART A- Profile of the Institute

A1.Name of the Institute: AMRITA VISHWA VIDYAPEETHAM, AMRITA SCHOOL OF ENGINEERING	
Year of Establishment : 1994	Location of the Institute: Coimbatore
A2. Institute Address:AMRITA SCHOOL OF ENGINEERING AMRITA NAGAR PO ETTIMADAI COIMBATORE - 641 112 TAMIL NADU	
City:Coimbotore	State:Tamil Nadu
Pin Code:641112	Website:www.amrita.edu
Email:s_sivesh@cb.amrita.edu	Phone No(with STD Code):0422-2685502
A3. Name and Address of the Affiliating University (if any):	
Name of the University :	City:
State :	Pin Code: 0
A4. Type of the Institution: Deemed University	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **14**
- No. of PG programs: **18**

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	Aerospace Engineering	2007	--	Aerospace Engineering
2	Engineering & Technology	PG	Artificial Intelligence	2020	--	Computer Science and Engineering
3	Engineering & Technology	UG	Artificial Intelligence and Data Science	2023	--	Artificial Intelligence and Data Science
4	Engineering & Technology	UG	Automation & Robotics	2021	--	Mechanical Engineering
5	Engineering & Technology	PG	Automotive Electronics	2015	--	Electronics and Communication Engineering

6	Engineering & Technology	PG	Automotive Engineering	2011	--	Mechanical Engineering
7	Engineering & Technology	PG	Biomedical Engineering	2007	--	Electronics and Communication Engineering
8	Engineering & Technology	UG	Chemical Engineering	2007	--	Chemical Engineering
9	Engineering & Technology	UG	Civil Engineering	2008	--	Civil Engineering
10	Engineering & Technology	PG	Communication Systems	2019	2024	Electronics and Communication Engineering
11	Engineering & Technology	UG	Computer & Communication Engineering	2019	--	Electronics and Communication Engineering
12	Engineering & Technology	UG	Computer Science and Engineering	1995	--	Computer Science and Engineering
13	Engineering & Technology	PG	Computer Science and Engineering	2011	--	Computer Science and Engineering
14	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence)	2019	--	Computer Science and Engineering
15	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2021	--	Cyber Security
16	Engineering & Technology	PG	Cyber Security	2006	--	Cyber Security
17	Engineering & Technology	PG	Data Science	2020	--	Artificial Intelligence and Data Science
18	Engineering & Technology	PG	Defence Technology	2021	--	Electronics and Communication Engineering
19	Engineering & Technology	UG	Electrical & Electronics Engineering	1994	--	Electrical and Electronics Engineering
20	Engineering & Technology	UG	Electrical and Computer Engineering	2019	--	Electrical and Electronics Engineering
21	Engineering & Technology	UG	Electronics & Communication Engineering	1994	--	Electronics and Communication Engineering
22	Engineering & Technology	UG	Electronics & Instrumentation Engineering	2004	2018	Electronics and Communication Engineering
23	Engineering & Technology	PG	Embedded Systems	2008	--	Electrical and Electronics Engineering
24	Engineering & Technology	PG	Engineering Design	2003	--	Mechanical Engineering

25	Engineering & Technology	PG	Industrial Intelligent Systems	2019	2022	Electrical and Electronics Engineering
26	Engineering & Technology	PG	Manufacturing & Automation	2003	--	Mechanical Engineering
27	Engineering & Technology	PG	Material Science and Engineering	2015	--	Chemical Engineering
28	Engineering & Technology	UG	Mechanical Engineering	1994	--	Mechanical Engineering
29	Engineering & Technology	PG	Power Electronics & Drives	2019	--	Electrical and Electronics Engineering
30	Engineering & Technology	PG	Renewable Energy Technologies	2014	--	Electrical and Electronics Engineering
31	Engineering & Technology	PG	Structural and Construction Engineering	2014	--	Civil Engineering
32	Engineering & Technology	PG	VLSI Design	2002	--	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
Civil Engineering	No	Civil Engineering	UG
Chemical Engineering	No	Chemical Engineering	UG
Aerospace Engineering	No	Aerospace 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:
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. S. Balamurugan
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)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	120	120	120	120	120	120	120
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	116	112	130	116	112	104	113
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	0	0	0	0	0	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	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.	116	112	130	116	112	104	113

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]
2024-25 (CAY)	120	0	0	96.67
2023-24 (CAYm1)	120	0	0	93.33
2022-23 (CAYm2)	120	0	0	108.33

Average [(ER1 + ER2 + ER3) / 3] = 99.44≡ 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	(2020-21) LYG	(2019-20) LYGm1	(2018-19) 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).	112.00	104.00	113.00

B=No. of students who graduated from the program in the stipulated course duration	101.00	99.00	103.00
Success Rate (SR)= (B/A) * 100	90.18	95.19	91.15

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 92.17

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

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

Academic Performance	CAYm1(2023-24)	CAYm2(2022-23)	CAYm3 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	7.31	7.31	6.96
Y=Total no. of successful students	112.00	130.00	114.00
Z=Total no. of students appeared in the examination	112.00	130.00	116.00
API [X*(Y/Z)]	7.31	7.31	6.96

Average API[(AP1+AP2+AP3)/3] : 7.19

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

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

Academic Performance	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	6.94	7.00	7.21
Y=Total no. of successful students	128.00	112.00	112.00
Z=Total no. of students appeared in the examination	130.00	114.00	112.00
API [X * (Y/Z)]	6.83	6.88	7.21

Average API [(AP1 + AP2 + AP3)/3] : 6.97

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

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

Academic Performance	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	6.92	7.01	7.16
Y=Total no. of successful students	112.00	112.00	102.00
Z=Total no. of students appeared in the examination	112.00	112.00	103.00
API [X*(Y/Z)]:	6.92	7.01	7.09

Average API [(AP1 + AP2 + AP3)/3] : 7.01

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2020-21)	LYGm1(2019-20)	LYGm2(2018-19)

FS*=Total no. of final year students	120.00	120.00	120.00
X=No. of students placed	73.00	72.00	90.00
Y=No. of students admitted to higher studies	14.00	18.00	3.00
Z= No. of students taking up entrepreneurship	0.00	1.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	72.50	75.83	77.50

Average Placement Index = (P_1 + P_2 + P_3)/3: 75.28 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. R. R. Lekshmi	XXXXXXX64L	Ph.D	Amrita Vishwa Vidyapeetham	POWER SYSTEMS	07/07/2008	16.8	Lecturer	Assistant Professor		Regular	Yes		No
2	Dr. S. Sampath Kumar	XXXXXXX52R	Ph.D	Anna University	POWER ELECTRONICS & DRIVES	16/06/2008	16.9	Lecturer	Assistant Professor		Regular	Yes		No
3	Dr. N. Praveen Kumar	XXXXXXX09D	Ph.D	amrita Vishwa Vidyapeetham	POWER ELECTRONICS	01/02/2011	14.1	Assistant Professor	Assistant Professor		Regular	Yes		No
4	Dr. P. Sivraj	XXXXXXX94M	Ph.D	Amrita Vishwa Vidyapeetham	EMBEDDED SYSTEMS	21/07/2010	14.8	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Mr. R.Shanmugha Sundaram	XXXXXXX60H	M.E/M.Tech	Anna University	POWER ELECTRONICS & DRIVES	01/07/2005	19.8	Lecturer	Assistant Professor		Regular	Yes		No
6	Dr. S.R.Mohanrajan	XXXXXXX85G	Ph.D	Amrita Vishwa Vidyapeetham	POWER ELECTRONICS & DRIVES	12/07/2006	18.8	Lecturer	Assistant Professor		Regular	Yes		No
7	Dr. N.Janarthanan	XXXXXXX37G	Ph.D	Amrita Vishwa Vidyapeetham	POWER SYSTEMS	16/06/2008	16.9	Lecturer	Assistant Professor		Regular	Yes		No

8	Dr. A. Suyampulingam	XXXXXXX65P	Ph.D	Anna University	APPLIED ELECTRONICS	01/06/2011	13.9	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Ms. N. Aarthi	XXXXXXX48J	M.E/M.Tech	Anna University	POWER SYSTEMS	01/07/2010	14.8	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Mr. P. Balakrishnan	XXXXXXX02G	M.E/M.Tech	Anna University	POWER ELECTRONICS & DRIVES	06/01/2010	15.2	Lecturer	Assistant Professor		Regular	Yes		No
11	Dr. S. Parvathy	XXXXXXX47E	Ph.D	Amrita Vishwa Vidyapeetham	POWER ELECTRONICS	21/07/2010	14.8	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Dr. R. Resmi	XXXXXXX22N	Ph.D	Amrita Vishwa Vidyapeetham	NAVIGATION & CONTROL	19/01/2011	14.2	Lecturer	Assistant Professor		Regular	Yes		No
13	Dr. Anu G Kumar	XXXXXXX49A	Ph.D	Amrita Vishwa Vidyapeetham	POWER SYSTEMS	02/07/2012	12.8	Lecturer	Assistant Professor		Regular	Yes		No
14	Mr. M. Jayakumar	XXXXXXX83G	M.E/M.Tech	Anna University	POWER ELECTRONICS & DRIVES	20/07/2013	11.8	Lecturer	Assistant Professor		Regular	Yes		No
15	Mr. R. Ranjith	XXXXXXX28P	M.E/M.Tech	Amrita Vishwa Vidyapeetham	EMBEDDED SYSTEMS	15/07/2015	9.8	Lecturer	Assistant Professor		Regular	Yes		No
16	Ms. G. Saisuriyaa	XXXXXXX72M	M.E/M.Tech	Amrita Vishwa Vidyapeetham	VLSI DESIGN	03/07/2013	11.8	Lecturer	Assistant Professor		Regular	Yes		No
17	Dr. S Saravanan	XXXXXXX41P	Ph.D	VIT University	POWER ELECTRONICS	02/05/2023	1.10	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Dr. M. S. Sivagama Sundari	XXXXXXX32L	Ph.D	Anna University	POWER ELECTRONICS	12/07/2023	1.8	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Dr. R. Anand	XXXXXXX21E	Ph.D	Amrita Vishwa Vidyapeetham	HYPERSPECTRAL IMAGE PROCESSING	01/08/2023	1.7	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Dr. C. P. Boopathy	XXXXXXX94P	Ph.D	Anna University	POWER ELECTRONICS	16/03/2022	3	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Ms. N. Kirthika	XXXXXXX52L	M.E/M.Tech	Amrita Vishwa Vidyapeetham	POWER ELECTRONICS	18/07/2012	11.9	Lecturer	Assistant Professor		Regular	No	14/05/2024	No
22	Dr. Diniesh V C	XXXXXXX46C	Ph.D	Anna University	Wireless Networks	26/10/2024	0.4	Assistant Professor	Assistant Professor		Regular	Yes		No
23	Dr. Sreeram T. S.	XXXXXXX04L	Ph.D	IIT Madras	POWER SYSTEMS	10/01/2022	1.3	Assistant Professor	Assistant Professor		Regular	No	04/05/2023	No

24	Dr. K. Radhika	XXXXXXX01F	Ph.D	Amrita Vishwa Vidyapeetham	Machine Learning & Data Science	01/08/2023	0.10	Lecturer	Assistant Professor		Regular	No	18/06/2024	No
25	Dr. K. Devika	XXXXXXX99A	Ph.D	Amrita Vishwa Vidyapeetham	Machine Learning & Data Science	01/08/2023	0.10	Lecturer	Assistant Professor		Regular	No	18/06/2024	No
26	Dr. Kanakasabapathy P	XXXXXXX60J	Ph.D	IIT, Madras	Power Systems	01/06/2024	0.9	Professor	Professor	01/06/2024	Regular	Yes		No
27	Dr. M. Venkateshkumar	XXXXXXX69N	Ph.D	Sathyabama University	POWER SYSTEMS	15/06/2021	3.9	Assistant Professor	Assistant Professor		Regular	Yes		No
28	Mr. Nakkeeran M	XXXXXXX81J	M.E/M.Tech	Annamalai University	COMPUTER SCIENCE	04/06/2024	0.9	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
29	Mr. Murugaraj G	XXXXXXX87A	M.E/M.Tech	Anna University	POWER ELECTRONICS	04/06/2024	0.9	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
30	Mr. Devanathan B.	XXXXXXX28E	M.E/M.Tech	Anna University	INDUSTRIAL ENGINEERING	01/08/2017	5.9	Lecturer	Assistant Professor		Regular	No	15/05/2023	No
31	Mr. A. Hari Ram	XXXXXXX33H	M.E/M.Tech	Anna University	HIGH VOLTAGE ENGINEERING	01/10/2018	5.11	Assistant Professor	Assistant Professor		Regular	No	31/08/2024	No
32	Dr Sumit Kumar Pandey	XXXXXXX26Q	Ph.D	IIT	CONTROL SYSTEMS	31/08/2023	1.6	Assistant Professor	Assistant Professor		Regular	Yes		No
33	Velumani V	XXXXXXX84L	M.E/M.Tech	Anna University	VLSI Design	02/01/2023	2.2	Lecturer	Assistant Professor		Contractual Fulltime	Yes		No
34	Muthupriya G	XXXXXXX50Q	M.E/M.Tech	Anna University	Power Electronics and Drives	02/01/2023	2.2	Lecturer	Assistant Professor		Contractual Fulltime	Yes		No
35	Dr. O. Venkata Ramana Murthy	XXXXXXX01C	Ph.D	IIT Delhi	MACHINE LEARNING	29/01/2016	7.6	Assistant Professor	Associate Professor	01/05/2023	Regular	No	31/07/2023	No
36	Dr. S. A. Lakshmanan	XXXXXXX86D	Ph.D	IIT MANDI	POWER ELECTRONICS	15/06/2021	1.10	Assistant Professor	Assistant Professor		Regular	No	15/05/2023	No
37	Dr. K. Illango	XXXXXXX27E	Ph.D	Amrita Vishwa Vidyapeetham	POWER SYSTEMS	15/06/2021	3.9	Assistant Professor	Associate Professor	01/05/2023	Regular	Yes		No
38	Dr. T. Ananthan	XXXXXXX98Q	Ph.D	NIT Calicut	CONTROL SYSTEMS	05/05/2014	10.10	Assistant Professor	Associate Professor	01/05/2023	Regular	Yes		No
39	Dr. D. Kavitha	XXXXXXX16H	Ph.D	Amrita Vishwa Vidyapeetham	HIGH VOLTAGE ENGINEERING	09/08/2004	20.7	Lecturer	Associate Professor	01/05/2023	Regular	Yes		No
40	Dr. S. Selva Kumar	XXXXXXX73B	Ph.D	Anna University	INSTRUMENTATION & CONTROL	16/06/2008	16.9	Lecturer	Associate Professor	01/05/2023	Regular	Yes		No

41	Dr. Anju S Pillai	XXXXXXX48R	Ph.D	Amrita Vishwa Vidyapeetham	ELECTRONICS DESIGN & CONTROL	01/06/2001	23.10	Lecturer	Associate Professor	01/06/2021	Regular	Yes		No
42	Dr. K.R.M. Vijaya Chandrakala	XXXXXXX40B	Ph.D	Anna University	POWER SYSTEMS	24/04/2009	15.11	Lecturer	Associate Professor	01/06/2021	Regular	Yes		No
43	Dr. Amit Agarwal	XXXXXXX06A	Ph.D	Nanyang Technological University	Electrical & Electronics Engineering	31/08/2022	2.6	Professor	Professor		Regular	Yes		No
44	Dr. M. R. Sindhu	XXXXXXX96H	Ph.D	Amrita Vishwa Vidyapeetham	POWER QUALITY	29/06/2001	23.9	Lecturer	Professor	01/01/2024	Regular	Yes		No
45	Dr. P. Supriya	XXXXXXX83N	Ph.D	Amrita Vishwa Vidyapeetham	ELECTRONICS & CONTROL	02/07/1996	28.9	Lecturer	Professor	01/01/2024	Regular	Yes		No
46	Dr. R. Jayabarathi	XXXXXXX99Q	Ph.D	Anna University	POWER SYSTEMS	06/05/1998	26.10	Lecturer	Associate Professor	01/07/2011	Regular	Yes		No
47	Dr. K. C. Sindhu Thampatty	XXXXXXX95J	Ph.D	NIT Calicut	POWER SYSTEMS	13/06/1996	28.9	Lecturer	Professor	01/05/2019	Regular	Yes		No
48	Dr. S. Balamurugan	XXXXXXX27G	Ph.D	Anna University	POWER SYSTEMS	16/06/2008	16.9	Lecturer	Professor	01/05/2019	Regular	Yes		Yes
49	Dr. Ananth Bharadwaj Madduluri	XXXXXXX58M	Ph.D	IIT, Ropar	WIRELESS POWER TRANSFER	03/01/2024	0.4	Assistant Professor	Assistant Professor		Regular	No	31/05/2024	No
50	Dr Arup Kumar Das	XXXXXXX80N	Ph.D	Jadavpur University	Electro Magnetics	01/08/2024	0.4	Assistant Professor	Assistant Professor		Regular	No	11/12/2024	No
51	Dr. Koteswara Rao K	XXXXXXX77G	Ph.D	VNIT, Nagpur	High Voltage Engineering	05/01/2022	0.5	Assistant Professor	Assistant Professor		Regular	No	29/06/2022	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 Department2 No. of PG Programs in the Department3

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

Description	**CAY(2024-25)**	**CAYm1 (2023-24)**	**CAYm2 (2022-23)**
UG1.B	60	60	60
UG1.C	60	60	60
UG1.D	60	60	60
UG1: Electrical and Computer Engineering	**180**	**180**	**180**
UG2.B	120	120	120
UG2.C	120	120	120
UG2.D	120	120	120
UG2: Electrical & Electronics Engineering	**360**	**360**	**360**
PG1.A	24	24	24
PG1.B	24	24	30
PG1: Embedded Systems	**48**	**48**	**54**
PG2.A	18	18	18
PG2.B	18	18	18
PG2: Power Electronics & Drives	**36**	**36**	**36**
PG3.A	18	24	24
PG3.B	24	24	24
PG3: Renewable Energy Technologies	**42**	**48**	**48**
DS=Total no. of students in all UG and PG programs in the Department	666	672	678
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=** 666	**S2=** 672	**S3=** 678
DF=Total no. of faculty members in the Department	39	40	36
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=** 39	**F2=** 40	**F3=** 36

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	0	0
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 17.08**	**SFR2= 16.80**	**SFR3= 18.83**
Average SFR for 3 years	**SFR= 17.57**		

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)]
2024-25(CAY)	29	10	33.00	25.00
2023-24(CAYm1)	27	14	33.00	24.70
2022-23(CAYm2)	25	11	33.00	22.27

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
2024-25	3.00	6.00	7.00	7.00	22.00	22.00
2023-24	3.00	3.00	7.00	9.00	22.00	26.00
2022-23	3.00	3.00	7.00	5.00	22.00	28.00
Average	RF1=3.00	AF1=4.00	RF2=7.00	AF2=7.00	RF2=22.00	AF2=25.33

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	Dr. K. Pradeep Kumar	Professor of Practice	ROBERT BOSCH/SKILL LINK	ELECTRIC VEHICLE	9.00
2	Dr. Shriram K Vasudevan	Adjunct Associate Professor	INTEL	IoT	9.00
3	Dr. Rajkumar Elagiri	Adjunct Professor	NICHE TECHNOLOGIES	AI AND ML	9.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. K. Pradeep Kumar	Professor of Practice	ROBERT BOSCH/SKILL LINK	ELECTRIC VEHICLE	16.00
2	Dr. Shriram K Vasudevan	Adjunct Associate Professor	INTEL	IoT	9.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. T N P Nambiar	Adjunct Professor	AMRITA VISHWA VIDYAPEETHAM	PROJECT PHASE I AND 2	25.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
1	No. of peer reviewed journal papers published	34	21	22
2	No. of peer reviewed conference papers published	60	81	69
3	No. of books/book chapters published	0	2	9

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. K.R.M. Vijaya Chandrakala	Dr. S. Saravanan Dr. S. Balamurugan	EEE	Development of Multi-Phase Permanent Magnet Starter/Generator (PMS/G) with Bi-directional DC-AC Converter for More Electric Aircraft (MEA)	Defense Research and Development Organization (DRDO)	3 Years	37.48
Ms. Vrindha Venugopal	Dr. K.R.M. Vijaya Chandrakala, Dr. R.R. Lekshmi Ms. Anu Kuriakose	EEE	Solar-Powered Cold Storage for Perishables An Affordable Pick Empowering Small Farmer	Ministry of Micro, Small & Medium Enterprises (MSME)	1 Year	15.00
Dr. Sriramdas Rammohan	Dr. Sivraj P	Mech & EEE	Development of a Hybrid Inverted Pendulum on wheels and Hopper based Dual Locomotion Assistive Robot (HIP-HOP Robot)	SERB-CRG	3 Years	35.80
						Amount received (Rs.):88.28

(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 Ilango Karuppasamy	Dr.Sivagama Sundari M S	EEE	Analyzing the Coimbatore District Sukanya Samridhi Yojana Scheme: An Integrated Approach using SPSS and Artificial Intelligence Prediction. A study of Coimbatore District.	Indian Council of Social Science Research (ICSSR)	6 Months	4.00
Mr. Ranjith R	Mr. R. Shanmugha Sundaram Dr. Anju S Pillai Dr. S. Balamurugan	EEE	Med2disp - Right Medication at Right Time with Right Monitoring	Ministry of Micro, Small & Medium Enterprises (MSME)	9 Months	13.31
Dr. M. R. Sindhu	Mr. Anu G Kumar Dr. Mohan Rajan S. R Dr. Sivraj P	EEE	Smart EV Sharing Infrastructure with Solar Powered EV Battery Swapping/Charging Stations	Ministry of Micro, Small & Medium Enterprises (MSME)	9 Months	15.00
Ms. Hemasri Meenaa Malini	Mr. R. Shanmugha Sundaram	EEE	Electric Vehicle Multipurpose Tractor	Ministry of Micro, Small & Medium Enterprises (MSME)	9-13 Months	13.50
Mr. Anu G Kumar	Dr. S. R. Mohanrajan Dr. S. Kanagaraj	EEE	Cost-effective Standalone Solar Smart Light for Village Roads	SEG, Rural Energy System Unnat Bharat Abhiyan	9 Months	0.50
						Amount received (Rs.):46.31

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: 134.59

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. Amit Agarwal	NA	EEE	Making Smart Irrigation Affordable for Small Farmers via Machine Learning	CEFIPRA Indo-French Centre for the Promotion of Advanced Research	1 Month	20.00
Dr. R. Anand	NA	EEE	Hyperspectral Image Analysis Using Machine Learning Algorithms	IIT, Tirupathi Navavishkar I-Hub Foundation, IIT Tirupati	1 Month	0.99
Dr Ilango Karuppasamy	Dr.Sivagama Sundari M S	EEE	Energy Storage	All India Council for Technical Education Training & Learning (ATAL) Academy Programmes	1 Month	3.50
Dr. M. Venkateshkumar	Dr. A. Manikandan	EEE	Light Weight & Simplified Deep Learning Techniques for Radar Sensor Damping Class Estimation	Continental Autonomous Mobility India Pvt. Ltd	1 Year	8.38
						Amount received (Rs.):32.87

(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. N. Praveen Kumar	NA	EEE	Condition Monitoring of Permanent Magnet Synchronous Motor for Electric Vehicles	Bosch Global Software Technologies	6 Months	3.00
Mr. R. Krishnan	Dr. S. Balamurugan	EEE	DST – TEDP on Electric Vehicle	DST	2 Months	1.60
						Amount received (Rs.):4.60

(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. S. Balamurugan	NA	EEE	Grid Tie Inverter Testing	M/s Caliber Interconne CT Solutions PVT. Ltd.	3 Months	0.56
Dr. S. Balamurugan	Dr. S. Selvakumar	EEE	Demo Model Setup for Cable Testing to be Used by V Guard Cables	V-Guard Cables	6 Months	4.23
Dr. S. Balamurugan	Dr. K.R.M. Vijaya Chandrakala Mr. N. Janarthanan	EEE	Scaled Down Model of Transmission Line (300km line scaled down to 400v, 5kVA per phase	Kongu Engineering College	1 Month	2.84
						Amount received (Rs.):7.63

Total amount (Lacs) received for the past 3 years: 45.10

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 KRM Vijaya Chandrakala Dr S Balamurugan	Distributed Energy Resources Market Management with Cyber Physical Co-Simulation	2	34.85	25.62	1-PhD, 3-Conf Pub., 2-Journal, 1-Post Doc, 1 - Research Lab
Dr. V. Ananthanarayanan Dr. S. Balamurugan	An Intelligent Intrusion Detection System to detect Anomalies in the Industry 4.0 Smart Grid Systems	2	46.75	35.77	1-Reserch Lab, 1 - PhD, 2 - Q1 Paper, 1 - Conference, 3 - UG Project
			Amount received (Rs.): 81.60		

(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
			Amount received (Rs.): 0		

(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
			Amount received (Rs.): 0		

Total amount (Lacs) received for the past 3 years : 81.60

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 Lab	4	• 5kVA,3Φ salient pole Alternator, • 2.2kW, 3Φ Induction Generator, • 3kVA, 3Φ	ODD B.Tech El	Mr.R. R. Nagharaj	Foreman Instructor	DEEE
2	Control and Instrumentation Lab	4	• NI My Rio • NI My Daq • E-Health Sensor Platform kit • DC Servo Motor PID	ODD B.Tech El	Mr. M. Jayakumar	Sr. Lab Assistant	ITI Electrician
3	Power Electronics Lab	4	• Digital Storage Oscilloscopes • DC Multiple Power supply • Function Generators •	ODD 20CYS1(	Mrs. V. Malathi	Sr.Lab Assistant	DECE
4	Drives and Control Lab	4	• 86 BLS 98 Brushless DC Motor. • Control panel with PLC Training kit. • Induction motor	ODD B.Tech El	Mr. Sidhan P.K	Lab Assistant	ITI Electrician
5	Power Systems Lab	4	• Three Phase Alternator • Synchroscope • IEEE 5 Bus System • Transmission Line	ODD B.Tech El	Mr. P. Manikandan	Sr. Lab Assistant	ITI Wireman
6	Renewable Energy Lab	4	• Weather Monitoring System • GPS-SAT Receiver • LCR Meter Model:LCR55A •	Research lab	Mr. P. V. Vinod	Lab Instructor	ITI
7	Embedded Systems Simulation Lab	1	• Netsim academic Version 10.2 • MATLAB • Wireshark • Keil 4 stm cude	ODD B.Tech El	Mr. Sudharsan R.	Sr. Lab Assistant	DEEE
8	Embedded Systems Hardware Lab	4	• ARM7 Boards (LPC 2148, 2129, 2468). • Mbed NXP LPC 1768, • Rasp Berry Pi, •	Research lab	Mr. Raja S	Assistant Instructor	B.E.
9	Digital Systems Lab	3	• Digital Trainer Kit. • Digital IC Tester	ODD B.Tech. E	Mr. M. Jayakumar	Sr. Lab Assistant	ITI Electrician
10	Micro controller Lab	3	• PIC16F877A Development Board • 8085, 8086 and 8051 Board with interfacing modules	ODD B.Tech. E	Mr. S. Sundarraj	Lab Instructor	DEEE
11	Electrical Workshop	4	• Wiring accessories • Tools	ODD Basic Ele	Mr. R. Thirunjanam	Lab instructor	ITI Electrician
12	Basic Electrical Engineering Lab	4	• Oil test kit, • 3phase induction motor, • 1phase induction motor, • DC Shunt Motor-	ODD Basic Ele	Mr. D. Karthikeyan	Lab Assistant	B.E.
13	Project Lab	4	• 3D Printer • Soldering Station • Drilling Bench • PCB Etching • Robotic Track •	ODD B.Tech. E	Mr. Sudharsan R.	Sr. Lab Assistant	DEEE

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 Lab	First Aid Box, Fire Extinguisher, Rubber Mat, Safety Instruction Board, ELCB, MCB, Safety precautions chart, Treatment against shock chart, Emergency Exit/Multiple Entry-Exit
2	Control and Instrumentation Lab	First Aid Box, Fire Extinguisher, Rubber Mat, Safety Instruction Board, ELCB, MCB, Safety precautions chart, Treatment against shock chart, Emergency Exit/Multiple Entry-Exit
3	Power Electronics Lab	First Aid Box, Fire Extinguisher, Rubber Mat, Safety Instruction Board, ELCB, MCB, Safety precautions chart, Treatment against shock chart, Emergency Exit/Multiple Entry-Exit
4	Drives and Control Lab	First Aid Box, Fire Extinguisher, Rubber Mat, Safety Instruction Board, ELCB, MCB, Safety precautions chart, Treatment against shock chart, Emergency Exit/Multiple Entry-Exit
5	Power Systems Lab	First Aid Box, Fire Extinguisher, Rubber Mat, Safety Instruction Board, ELCB, MCB, Safety precautions chart, Treatment against shock chart, Emergency Exit/Multiple Entry-Exit Equipment Double Earthing, Working table earthing, RCBO protection, Separate Earthing for Lab
6	Renewable Energy Lab	First Aid Box, Fire Extinguisher, Rubber Mat, Safety Instruction Board, ELCB, MCB, Safety precautions chart, Treatment against shock chart, Emergency Exit/Multiple Entry-Exit Equipment Double Earthing, Working table earthing, RCBO protection, Separate Earthing for Lab
7	Embedded Systems Simulation Lab	First Aid Box, Fire Extinguisher, Rubber Mat, Safety Instruction Board, ELCB, MCB, Safety precautions chart, Treatment against shock chart, Emergency Exit/Multiple Entry-Exit
8	Embedded Systems Hardware Lab	First Aid Box, Fire Extinguisher, Rubber Mat, Safety Instruction Board, ELCB, MCB, Safety precautions chart, Treatment against shock chart, Emergency Exit/Multiple Entry-Exit

9	Digital Systems Lab	First Aid Box, Fire Extinguisher, Safety Instruction Board, ELCB, MCB, Safety precautions chart
10	Microprocessor Lab	First Aid Box, Fire Extinguisher, Safety Instruction Board, ELCB, MCB, Safety precautions chart
11	Electrical Workshop	First Aid Box, Fire Extinguisher, Rubber Mat, Safety Instruction Board, ELCB, MCB, Safety precautions chart, Treatment against shock chart, Emergency Exit/Multiple Entry-Exit
12	Basic Electrical Engineering Lab	First Aid Box, Fire Extinguisher, Rubber Mat, Safety Instruction Board, ELCB, MCB, Safety precautions chart, Treatment against shock chart, Emergency Exit/Multiple Entry-Exit
13	Project Lab	First Aid Box, Fire Extinguisher, Rubber Mat, Safety Instruction Board, ELCB, MCB, Safety precautions chart, Treatment against shock chart

D3. Project Laboratory/Research Laboratory

Table No. 7.5.1: List of project laboratory / research laboratory/Centre of Excellence

S. No	Name of the Laboratory
1	Central IoT Laboratory
2	CISCO ThinQbator
3	AICTE IDEA Lab
4	Automotive Testing Centre
5	Atal Incubation Centre
6	Cyber Physical AIoT and Edge Intelligence 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
2022-23(CAYm2)	1320	66	75	68	112
2023-24(CAYm1)	1440	72	82	85	115
2024-25(CAY)	1980	99	86	100	90

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	69000000	71812496	63000000	65260771	56000000	55807472	262000000	227590356
Library	33000000	31752441	24000000	24673925	64000000	63091836	96000000	91424028
Laboratory equipment	54000000	50960549	28000000	25159375	15000000	15183885	11000000	9123871
Teaching and non-teaching staff salary	1113000000	1135763217	1087000000	1097974733	1034000000	1044140652	768000000	760008856
Outreach Programs	23500000	23878785	26000000	25992719	27000000	28304929	10000000	10634248
R&D	195000000	189632130	115000000	111365553	81000000	78901094	23000000	20618716
Training, Placement and Industry linkage	6000000	5917481	4500000	4785665	5000000	4987162	5000000	4838902
SDGs	27000000	26000000	24000000	23300000	20000000	18900000	5500000	5200000

Entrepreneurship	1000000	960000	1000000	892800	1000000	866016	500000	649512
Others, specify	615000000	585583135	598000000	553435027	574000000	546376752	606000000	572157256
Total	**2136500000**	**2122260234**	**1970500000**	**1932840568**	**1877000000**	**1856559798**	**1787000000**	**1702245745**

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	2800000	2501327	3600000	3480071	2250000	2201613	1050000	984880
Software	2750000	2716199	1750000	1809714	2250000	2187220	2200000	2230423
SDGs	2750000	2712598	2350000	2396144	2200000	2172102	550000	564919
Support for faculty development	1200000	1121254	900000	870888	550000	529685	50000	49000
R & D	18800000	17068256	13550000	11298952	7550000	6880568	1700000	1245423
Industrial Training, Industry expert, Internship	50000	66971	100000	73745	100000	82721	50000	60747
Miscellaneous Expenses*	85850000	83366448	74750000	73282738	76600000	75098546	64500000	63878433
Total	**114200000**	**109553053**	**97000000**	**93212252**	**91500000**	**89152455**	**70100000**	**69013825**