NATIONAL BOARD OF ACCREDITATION

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

Program Name : Electronics & Communication Engineering	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 1
Application No: 11147	**Date of Submission**: 31-10-2025

PART A- Profile of the Institute

A1.Name of the Institute: SENGUNTHAR ENGINEERING COLLEGE	
Year of Establishment : 2001	Location of the Institute: Tiruchengode
A2. Institute Address:Kosavampalayam Village, Kumaramangalam Post, Tiruchengode.	
City:Namakkal	State:Tamil Nadu
Pin Code:637205	Website:www.scteng.co.in
Email:principal@scteng.co.in	Phone No(with STD Code):4288-255715
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Anna University	City: Chennai
State : Tamil Nadu	Pin Code: 600025
A4. Type of the Institution: Self-Supported Institute	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **12**
- No. of PG programs: **5**

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Artificial Intelligence and Data Science	2022	--	Artificial Intelligence and Data Science
2	Engineering & Technology	UG	Artificial Intelligence and Machine Learning	2025	--	Artificial Intelligence and Machine Learning
3	Engineering & Technology	UG	Civil Engineering	2004	--	Civil Engineering
4	Engineering & Technology	PG	Computer Science and Engineering	2010	--	Computer Science and Engineering
5	Engineering & Technology	UG	Computer Science and Engineering	2001	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2022	--	Computer Science and Engineering (Cyber Security)
7	Engineering & Technology	UG	Electrical & Electronics Engineering	2001	--	Electrical and Electronics Engineering
8	Engineering & Technology	UG	Electronics & Communication Engineering	2001	--	Electronics and Communication Engineering
9	Engineering & Technology	UG	Information Technology	2022	--	Information Technology
10	Engineering & Technology	UG	Mechanical Engineering	2004	--	Mechanical Engineering
11	Engineering & Technology	UG	Medical Electronics	2022	--	Medical Electronics
12	Engineering & Technology	PG	Medical Electronics	2022	--	Medical Electronics
13	Engineering & Technology	UG	Pharmaceutical Engineering and Technology	2023	--	Pharmaceutical Engineering and Technology
14	Engineering & Technology	UG	Robotics and Automation	2022	--	Robotics and Automation
15	Engineering & Technology	PG	Structural Engineering	2011	--	Civil Engineering
16	Engineering & Technology	PG	VLSI Design	2010	--	Electronics and Communication Engineering
17	Management	PG	Master of Business Administration	2004	--	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
Mechanical Engineering	Yes	Mechanical Engineering	UG
Electronics and Communication Engineering	Yes	Electronics & Communication Engineering	UG
Electrical and Electronics Engineering	No	Electrical & Electronics Engineering	UG
Civil Engineering	No	Civil 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)

Allied Department/Cluster Name	Program Name	Program Level
Medical Electronics	Medical Electronics	UG
Medical Electronics	Medical Electronics	PG

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	Electronics & Communication Engineering	UG	2001 / --	60	Yes	2022	60	2022	1-10980920266/2022/ EOA	Applying first time	--	--	0	4

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

Sanctioned Intake for Last Five Years for the Electronics & Communication Engineering	
Academic Year	**Sanctioned Intake**
2025-26	60
2024-25	60
2023-24	60
2022-23	60
2021-22	120
2020-21	120

List of the Allied Departments/Cluster and Programs:

SR.NO.	ALLIED DEPARTMENT NAME	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	Medical Electronics	Medical Electronics	PG	2022 / --	18	No	NA	18	2022	1-10980920266	Eligible but not applied	--	--	0	2
2	Medical Electronics	Medical Electronics	UG	2022 / --	120	Yes	NA	60	2022	1-10980920266	Eligible but not applied	--	--	0	4

Sanctioned Intake for Last Five Years for the Medical Electronics	
Academic Year	**Sanctioned Intake**
2025-26	60
2024-25	120
2023-24	120
2022-23	120
2021-22	0
2020-21	0

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

A. Name of the HoD :	Dr.C.AARTHI
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	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	60	55	54	58	44	23	14
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	1	1	3	2	16	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	3	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.	63	56	55	61	46	39	14

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	63	0	105.00
2024-25 (CAYm1)	60	55	0	91.67
2023-24 (CAYm2)	60	54	0	90.00

Average [(ER1 + ER2 + ER3) / 3] = 95.56≅ 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).	122.00	136.00	120.00
B=No. of students who graduated from the program in the stipulated course duration	37.00	30.00	14.00
Success Rate (SR)= (B/A) * 100	30.33	22.06	11.67

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 21.35

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)	7.72	7.87	7.54
Y=Total no. of successful students	55.00	54.00	58.00
Z=Total no. of students appeared in the examination	55.00	54.00	58.00
API [X*(Y/Z)]	7.72	7.87	7.54

Average API[(AP1+AP2+AP3)/3] : 7.71

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)	7.74	7.45	7.14
Y=Total no. of successful students	53.00	60.00	44.00
Z=Total no. of students appeared in the examination	55.00	61.00	46.00
API [X * (Y/Z)]	7.46	7.33	6.83

Average API [(AP1 + AP2 + AP3)/3] : 7.21

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)	7.37	7.49	7.71
Y=Total no. of successful students	60.00	42.00	34.00
Z=Total no. of students appeared in the examination	60.00	44.00	34.00
API [X*(Y/Z)]:	7.37	7.15	7.71

Average API [(AP1 + AP2 + AP3)/3] : 7.41

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	122.00	136.00	120.00
X=No. of students placed	40.00	25.00	12.00
Y=No. of students admitted to higher studies	1.00	4.00	1.00
Z= No. of students taking up entrepreneurship	1.00	2.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	34.43	22.79	10.83

Average Placement Index = (P_1 + P_2 + P_3)/3: 22.68 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments

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

C1. Faculty details of Department and Allied Departments

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

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr.C.AARTHI	XXXXXXX28F	M.E. and Ph.D.	ANNA UNIVERSITY	VLSI Design	24/09/2004	21.1	Lecturer	Professor	01/12/2021	Regular	Yes		Yes
2	Mrs.D.RAMYA	XXXXXXX53K	M.E.	ANNA UNIVERSITY	VLSI Design	02/02/2015	10.8	Assistant Professor	Assistant Professor		Regular	Yes		No
3	Mr.A.RAHUL	XXXXXXX08B	M.E.	ANNA UNIVERSITY	COMMUNICATION SYSTEMS	07/07/2008	17.3	Lecturer	Assistant Professor		Regular	Yes		No
4	Dr.M.ARUN KUMAR	XXXXXXX04N	M.E. and Ph.D.	ANNA UNIVERSITY	VLSI Design	03/07/2013	12.3	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Mr.V.GOWTHAMAN	XXXXXXX24M	M.E.	ANNA UNIVERSITY	COMMUNICATION SYSTEMS	08/06/2015	10.4	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Dr.P.SIVASANKARAN	XXXXXXX04N	M.E. and Ph.D.	ANNA UNIVERSITY	ARTIFICIAL INTELLIGENCE	18/07/2016	9.3	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Mr.M.BASKARAN	XXXXXXX24F	M.E.	ANNA UNIVERSITY	POWER ELECTRONICS AND DRIVES	03/02/2021	4.8	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Mr.G.SURESH	XXXXXXX36E	M.E.	ANNA UNIVERSITY	VLSI Design	10/08/2022	3.2	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mrs.B.PRIYANKA	XXXXXXX06N	M.E.	ANNA UNIVERSITY	VLSI Design	11/09/2023	2.1	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Dr.N.SANGEETHAPRIYA	XXXXXXX48M	M.E. and Ph.D.	ANNA UNIVERSITY	WIRELESS NETWORKS	06/05/2024	1.5	Associate Professor	Associate Professor		Regular	Yes		No
11	Mr.R.TAMILSELVAN	XXXXXXX11J	M.E.	Anna University	VLSI Design	10/07/2024	1.3	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Mr.K.PRASANTH	XXXXXXX68N	M.E.	ANNA UNIVERSITY	VLSI Design	19/02/2025	0.8	Assistant Professor	Assistant Professor		Regular	Yes		No
13	MrS.V.SARANYA	XXXXXXX93B	M.Tech	SASTRA UNIVERSITY	VLSI Design	28/07/2025	0.3	Assistant Professor	Assistant Professor		Regular	Yes		No
14	MrS.D.MEKALA	XXXXXXX44A	M.E.	ANNA UNIVERSITY	VLSI Design	02/06/2010	15.5	Assistant Professor	Assistant Professor		Regular	Yes		No
15	MrS.J.SHRIPRIYADARSHINI	XXXXXXX90D	M.E.	ANNA UNIVERSITY	VLSI Design	05/06/2024	0.11	Assistant Professor	Assistant Professor		Regular	No	31/05/2025	No
16	Mrs.K.PANJAVARNAM	XXXXXXX76K	M.E.	ANNA UNIVERSITY	VLSI Design	02/01/2017	8.4	Assistant Professor	Assistant Professor		Regular	No	31/05/2025	No
17	Mrs.B.BHUVANESWARI	XXXXXXX63K	M.E.	ANNA UNIVERSITY	EMBEDDED SYSTEMS TECHNOLOGIES	05/12/2019	4.7	Assistant Professor	Assistant Professor		Regular	No	31/07/2024	No
18	Mrs.M.KALAIARASI	XXXXXXX69D	M.E.	ANNA UNIVERSITY	VLSI Design	24/02/2020	4.9	Assistant Professor	Assistant Professor		Regular	No	30/11/2024	No
19	Mr.R.KARTHIKEYAN	XXXXXXX68M	M.E.	ANNA UNIVERSITY	VLSI Design	04/01/2021	3.6	Assistant Professor	Assistant Professor		Regular	No	31/07/2024	No

20	Mrs.U.KEERTHIKA	XXXXXXX48N	M.E.	ANNA UNIVERSITY	COMMUNICATION SYSTEMS	04/01/2021	3.6	Assistant Professor	Assistant Professor		Regular	No	31/07/2024	No
21	Dr.P.GOPINATH	XXXXXXX26L	M.E. and Ph.D.	ANNA UNIVERSITY	IMAGE PROCESSING	13/06/2011	12.6	Assistant Professor	Assistant Professor		Regular	No	28/12/2023	No
22	Mrs.R.RENUKA	XXXXXXX55B	M.E.	ANNA UNIVERSITY	COMMUNICATION SYSTEMS	04/12/2017	5.8	Assistant Professor	Assistant Professor		Regular	No	31/08/2023	No
23	Mrs.K.POOMALA	XXXXXXX77R	M.E.	ANNA UNIVERSITY	COMMUNICATION SYSTEMS	08/12/2021	1.8	Assistant Professor	Assistant Professor		Regular	No	31/08/2023	No
24	Mrs.M.SATHYA	XXXXXXX81D	M.E.	ANNA UNIVERSITY	VLSI Design	10/12/2021	3.5	Assistant Professor	Assistant Professor		Regular	No	31/05/2025	No
25	Dr.P.RAMESH KUMAR	XXXXXXX93H	M.Tech and Ph.D.	ANNA UNIVERSITY	INFORMATION AND COMMUNICATION	24/12/2014	10.5	Professor	Professor		Regular	No	24/05/2025	No
26	Mr.T.K.SIVAKUMAR	XXXXXXX54Q	M.E.	ANNA UNIVERSITY	COMMUNICATION AND NETWORKING	26/02/2020	4.10	Assistant Professor	Assistant Professor		Regular	No	21/01/2025	No
27	Mr.M.MAHENDRAN	XXXXXXX17G	M.E.	ANNA UNIVERSITY	VLSI Design	02/07/2018	6.7	Assistant Professor	Assistant Professor		Regular	No	31/01/2025	No
28	Mrs.K.GOWSALYA	XXXXXXX08P	M.E.	ANNA UNIVERSITY	VLSI Design	14/10/2022	2.3	Assistant Professor	Assistant Professor		Regular	No	25/01/2025	No
29	Mrs.S.INDUMATHI	XXXXXXX38H	M.E.	ANNA UNIVERSITY	VLSI Design	16/02/2022	3.8	Assistant Professor	Assistant Professor		Regular	Yes		No
30	Dr.JENI ANTO FRANCIS	XXXXXXX39J	M.E. and Ph.D.	ANNA UNIVERSITY	MICROWAVE AND OPTICAL ENGINEERING	20/08/2025	0.2	Associate Professor	Associate Professor	20/08/2025	Regular	Yes		No
31	Dr.C.SANTHOSHKUMAR	XXXXXXX58M	M.E. and Ph.D.	ANNA UNIVERSITY	VLSI Design	22/08/2025	0.2	Associate Professor	Associate Professor	22/08/2025	Regular	Yes		No

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

Sr.No	Name of the Faculty	PAN No.	APAAR faculty ID*(if any)	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.E.GEETHA	XXXXXXX86C	NA	M.E. and Ph.D.	ANNA UNIVERSITY	EMBEDDED SYSTEM TECHNOLOGIES	15/11/2010	14.11	Assistant Professor	Professor	06/12/2021	Regular	Yes		Yes
2	Mr.P.VELUSAMY	XXXXXXX81F	NA	M.E.	ANNA UNIVERSITY	POWER ELECTRONICS AND DRIVES	01/02/2023	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
3	Mr.K.BOOPATHI	XXXXXXX75K	NA	M.E.	ANNA UNIVERSITY	MEDICAL ELECTRONICS	15/11/2021	3	Assistant Professor	Assistant Professor		Regular	No	30/11/2024	No
4	Mrs.R.AARTHI	XXXXXXX15L	NA	M.E.	ANNA UNIVERSITY	MEDICAL ELECTRONICS	02/05/2023	2	Assistant Professor	Assistant Professor		Regular	No	31/05/2025	No
5	Mrs.M.TAMILMATHI	XXXXXXX90B	NA	M.E.	ANNA UNIVERSITY	MEDICAL ELECTRONICS	07/08/2020	4.11	Assistant Professor	Assistant Professor		Regular	No	26/07/2025	No
6	MRS.M.NAVEENA	XXXXXXX45J	NA	M.E.	ANNA UNIVERSITY	MEDICAL ELECTRONICS	02/05/2023	2.2	Assistant Professor	Assistant Professor		Regular	No	26/07/2025	No
7	MRS.A.RAMYA	XXXXXXX79K	NA	M.E.	ANNA UNIVERSITY	COMMUNICATION SYSTEMS	15/06/2012	13.4	Assistant Professor	Assistant Professor		Regular	Yes		No
8	MRS.M.DIVYALAKSHMI	XXXXXXX33L	NA	M.E.	ANNA UNIVERSITY	VLSI Design	26/08/2021	4.2	Assistant Professor	Assistant Professor		Regular	Yes		No
9	MRS.P.NITHYAJOTHI	XXXXXXX74G	NA	M.E.	ANNA UNIVERSITY	APPLIED ELECTRONICS	19/06/2023	2	Assistant Professor	Assistant Professor		Regular	No	19/06/2025	No
10	MRS.P.SUGANTHI	XXXXXXX31Q	NA	M.E.	ANNA UNIVERSITY	CONTROL SYSTEMS	22/01/2025	0.8	Assistant Professor	Assistant Professor		Regular	No	30/09/2025	No
11	MR.J.SYED ZABIYULLAH	XXXXXXX81P	NA	M.E.	ANNA UNIVERSITY	APPLIED ELECTRONICS	18/04/2022	3.6	Assistant Professor	Assistant Professor		Regular	Yes		No
12	MR.M.S.MUHAMMADU SATHIK RAJA	XXXXXXX53F	NA	M.E.	ANNA UNIVERSITY	APPLIED ELECTRONICS	07/02/2012	12.11	Assistant Professor	Assistant Professor		Regular	No	06/01/2025	No
13	MRS.S.PRIYA	XXXXXXX45N	NA	M.E.	ANNA UNIVERSITY	APPLIED ELECTRONICS	11/11/2021	3.1	Assistant Professor	Assistant Professor		Regular	No	06/01/2025	No
14	Mr.S.KANNAN	XXXXXXX57H	NA	M.E.	ANNA UNIVERSITY	LASER AND ELECTRO OPTICAL ENGINEERING	01/02/2023	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Mrs. V. KAVITHA	XXXXXXX79M	NA	M.E.	ANNA UNIVERSITY	BIOMEDICAL MEGINEERING	16/12/2019	5.10	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Mrs.K.JAMUNA	XXXXXXX45N	NA	M.E.	ANNA UNIVERSITY	MEDICAL ELECTRONICS	06/10/2023	1.8	Assistant Professor	Assistant Professor		Regular	No	19/06/2025	No
17	Mrs. K. DHIVYA	XXXXXXX80K	NA	M.E.	ANNA UNIVERSITY	VLSI Design	25/06/2024	1.4	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Mr.N.CHIRANJEEVI	XXXXXXX33P	NA	M.E.	ANNA UNIVERSITY	MEDICAL ELECTRONICS	19/08/2021	4.2	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Mrs.A.SREERANJANI	XXXXXXX25Q	NA	M.E.	ANNA UNIVERSITY	MEDICAL ELECTRONICS	06/12/2019	5.4	Assistant Professor	Assistant Professor		Regular	No	30/04/2025	No
20	Mr.S.GOPALAKRISHNAN	XXXXXXX27R	NA	M.E.	ANNA UNIVERSITY	EMBEDDED SYSTEMS TECHNOLOGIES	01/10/2022	2.7	Assistant Professor	Assistant Professor		Regular	No	31/05/2025	No
21	Mrs.T.LOGA ABIRAMI	XXXXXXX25C	NA	M.E.	ANNA UNIVERSITY	MEDICAL ELECTRONICS	02/01/2019	6.3	Assistant Professor	Assistant Professor		Regular	No	30/04/2025	No
22	Mrs.M.UMAMAHESHWARI	XXXXXXX82A	NA	M.E.	ANNA UNIVERSITY	MEDICAL ELECTRONICS	19/08/2021	3.4	Assistant Professor	Assistant Professor		Regular	No	06/01/2025	No

23	Mrs.D.G.BEAUTLINVINOLA	XXXXXXX22G	NA	M.E.	ANNA UNIVERSITY	MEDICAL ELECTRONICS	19/08/2021	1.9	Assistant Professor	Assistant Professor		Regular	No	09/06/2023	No
24	Mr.R.PANNEERSELVAM	XXXXXXX02L	NA	M.E.	ANNA UNIVERSITY	COMMUNICATION SYSTEMS	01/02/2023	1	Assistant Professor	Assistant Professor		Regular	No	12/02/2024	No
25	Mrs.B.PRIYANKA	XXXXXXX19P	NA	M.E.	ANNA UNIVERSITY	VLSI Design	12/10/2021	2.2	Assistant Professor	Assistant Professor		Regular	No	20/12/2023	No
26	Mrs.R.PRIYADHARSHINI	XXXXXXX76H	NA	M.E.	ANNA UNIVERSITY	MEDICAL ELECTRONICS	07/08/2020	3.9	Assistant Professor	Assistant Professor		Regular	No	18/05/2024	No
27	Mrs.S.MAHESHWARI	XXXXXXX77M	NA	M.E.	ANNA UNIVERSITY	EMBEDDED SYSTEMS TECHNOLOGIES	02/01/2023	1.4	Assistant Professor	Assistant Professor		Regular	No	11/05/2024	No
28	Mrs.V.BANUPRIYA	XXXXXXX00B	NA	M.E.	ANNA UNIVERSITY	APPLIED ELECTRONICS	01/09/2022	0.9	Assistant Professor	Assistant Professor		Regular	No	02/06/2023	No
29	MRS.K.ABIRAMI	XXXXXXX98B	NA	M.E.	ANNA UNIVERSITY	MEDICAL ELECTRONICS	17/08/2022	2.4	Assistant Professor	Assistant Professor		Regular	No	06/01/2025	No
30	Mrs.R.SARASWATHI	XXXXXXX49L	NA	M.E.	ANNA UNIVERSITY	VLSI Design	27/01/2025	0.9	Assistant Professor	Assistant Professor		Regular	Yes		No
31	Mr.S.SAKTHIVEL	XXXXXXX64G	NA	M.E.	ANNA UNIVERSITY	EMBEDDED SYSTEMS TECHNOLOGIES	27/01/2025	0.9	Assistant Professor	Assistant Professor		Regular	Yes		No
32	Mrs.K.GOWSALYA	XXXXXXX08P	NA	M.E.	ANNA UNIVERSITY	VLSI Design	27/01/2025	0.6	Assistant Professor	Assistant Professor		Regular	No	29/07/2025	No
33	Mrs.M.SATHYA	XXXXXXX81D	NA	M.E.	ANNA UNIVERSITY	VLSI Design	02/06/2025	0.1	Assistant Professor	Assistant Professor		Regular	No	29/07/2025	No
34	Mr.S.GOWTHAM	XXXXXXX23E	NA	M.E.	ANNA UNIVERSITY	MEDICAL ELECTRONICS	08/07/2025	0.3	Assistant Professor	Assistant Professor		Regular	Yes		No
35	Dr.C.RAJAKUMAR	XXXXXXX46M	NA	M.E. and Ph.D.	ANNA UNIVERSITY	OPTICAL COMMUNICATION	20/08/2025	0.2	Associate Professor	Associate Professor	20/08/2025	Regular	Yes		No
36	Dr.R.POOVENDRAN	XXXXXXX99N	NA	M.E. and Ph.D.	ANNA UNIVERSITY	COMMUNICATION SYSTEMS	20/08/2025	0.2	Associate Professor	Associate Professor	20/08/2025	Regular	Yes		No
37	Mr.A.SURESH	XXXXXXX94J	NA	M.E.	ANNA UNIVERSITY	COMMUNICATION SYSTEMS	19/04/2023	2.6	Assistant Professor	Assistant Professor		Regular	Yes		No
38	Mrs.R.Reshma	XXXXXXX24N	NA	M.E.	ANNA UNIVERSITY	MEDICAL ELECTRONICS	19/08/2021	4.2	Assistant Professor	Assistant Professor		Regular	Yes		No
39	Ms.M.MOULIKA	XXXXXXX28J	NA	M.E.	ANNA UNIVERSITY	MEDICAL ELECTRONICS	07/07/2025	0.3	Assistant Professor	Assistant Professor		Regular	Yes		No
40	Dr.R.Satish Kumar	XXXXXXX28M	NA	M.E. and Ph.D.	ANNA UNIVERSITY	POWER ELECTRONICS AND DRIVES	07/05/2004	21.5	Professor	Professor	09/09/2014	Regular	Yes		No
41	Mr.P.JOTHIMANI	XXXXXXX98A	NA	M.E.	ANNA UNIVERSITY	COMMUNICATION SYSTEMS	11/11/2024	0.5	Assistant Professor	Assistant Professor		Regular	No	30/04/2025	No
42	Mr.B.MOHANKUMAR	XXXXXXX48N	NA	M.E.	ANNA UNIVERSITY	APPLIED ELECTRONICS	25/08/2025	0.2	Assistant Professor	Assistant Professor		Regular	Yes		No
43	Mr.T.K.SIVAKUMAR	XXXXXXX54Q	NA	M.E.	ANNA UNIVERSITY	COMMUNICATION AND NETWORKING	22/01/2025	0.9	Assistant Professor	Assistant Professor		Regular	Yes		No
44	Mr.M.MAHENDRAN	XXXXXXX17G	NA	M.E.	ANNA UNIVERSITY	VLSI Design	01/02/2025	0.3	Assistant Professor	Assistant Professor		Regular	No	31/05/2025	No
45	Dr.A.PRABIN	XXXXXXX35Q	NA	M.E. and Ph.D.	ANNA UNIVERSITY	INFORMATION AND COMMUNICATION ENGINEERING	22/08/2025	0.2	Associate Professor	Associate Professor		Regular	Yes		No
46	Mrs.K.PANJAVARNAM	XXXXXXX76K	NA	M.E.	Anna University	VLSI Design	02/06/2025	0.1	Assistant Professor	Assistant Professor		Regular	No	26/07/2025	No

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	61	61	63
UG1.C	61	63	122
UG1.D	63	122	132
UG1: Electronics & Communication Engineering	**185**	**246**	**317**
UG2.B	120	123	120
UG2.C	123	120	0
UG2.D	120	0	0
UG2: Medical Electronics	**363**	**243**	**120**
PG1.A	18	18	18
PG1.B	18	18	18
PG1: Medical Electronics	**36**	**36**	**36**

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
PG2.A	18	18	18
PG2.B	18	18	18
PG2: VLSI Design	**36**	**36**	**36**
DS=Total no. of students in all UG and PG programs in the Department	221	282	353
AS=Total no. of students of all UG and PG programs in allied departments	399	279	156
S=Total no. of students in the Department (DS) and allied departments (AS)	**S1=** 620	**S2=** 561	**S3=** 509
DF=Total no. of faculty members in the Department	17	17	20
AF= Total no. of faculty members in the allied Departments	21	20	25
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	**F1=** 38	**F2=** 37	**F3=** 45
FF=The faculty members in F who have a 100% teaching load in the first-year courses	2	2	2
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 17.22**	**SFR2= 16.03**	**SFR3= 11.84**
Average SFR for 3 years	**SFR= 15.03**		

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)	10	28	29.00	18.28
2024-25(CAYm1)	5	32	26.00	17.12
2023-24(CAYm2)	4	41	23.00	22.17

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	3.00	3.00	6.00	6.00	19.00	29.00
2024-25	2.00	4.00	5.00	1.00	17.00	32.00
2023-24	2.00	4.00	5.00	0.00	15.00	41.00
Average	RF1=2.33	AF1=3.67	RF2=5.33	AF2=2.33	RF2=17.00	AF2=34.00

C5. Visiting/Adjunct Faculty/Professor of Practice

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

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr.M.Jayakumar	Embedded Software Engineer	Telematics Division, Trinetra Wireless Pvt Ltd. Coimbatore	Embedded Systems	26.00
2	Mr.M.Jayakumar	Embedded Software Engineer	Telematics Division, Trinetra Wireless Pvt Ltd. Coimbatore	Digital Communication	25.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr.M.Jayakumar	Embedded Software Engineer	Telematics Division, Trinetra Wireless Pvt Ltd. Coimbatore	Embedded Systems	26.00
2	Mr.M.Jayakumar	Embedded Software Engineer	Telematics Division, Trinetra Wireless Pvt Ltd. Coimbatore	Digital Communication	25.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr.L.Senthil Kumar	Senior Software Manager	Motorola Mobility India Pvt Ltd, Bangalore	Soft Computing	26.00
2	Mr.L.Senthil Kumar	Senior Software Manager	Motorola Mobility India Pvt Ltd, Bangalore	Communication Networks	25.00

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	8	26	13
2	No. of peer reviewed conference papers published	19	17	9
3	No. of books/book chapters published	3	0	0

C7. Sponsored Research Project

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

(CAYm1)

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Mr.V.Gowthaman		ECE	Smart Irrigation and Pesticides System for Enhancing Harvesting in Agriculture Using IoT	TNSDC-Naan Muthalvan (AU)-Niral	1 year	0.10
						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.C. Aarthi		ECE	Integrated vehicle safety system	TNSCST	6 MONTHS	0.08
						Amount received (Rs.):0.08

Total Amount (Lacs) Received for the Past 3 Years: 0.18

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)

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Mr.A.Rahul	Mr.M.Baskaran	ECE	Live Stock Maintenance System	Sri Lakshmi Saraswathi Exports Pvt. Ltd,Tiruchengode	1 Year	0.60
						Amount received (Rs.):0.60

(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.C.Aarthi	Mr.G.Suresh	ECE	Live Stock Maintenance System	Sri Lakshmi Saraswathi Exports Pvt. Ltd,Tiruchengode	1 Year	0.50
						Amount received (Rs.):0.50

Total amount (Lacs) received for the past 3 years: 1.10

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
Mrs.B.PRIYANKA	Diabetic Retinopathy Detection using Image processing	6 Months	0.19	0.19	The project may result in publications in peer-reviewed journals.
Mrs.J.Shri priyadarshini	Automatic Vehicle Head Light Dim and brightness Control system	6 Months	0.19	0.19	A tangible prototype for educationublications in peer-reviewed journals.
Mrs.T.Dharshini priya	IOT Based Water Quality Detection for Sugar Factory	6 Months	0.18	0.18	TThe project may result in publications in peer-reviewed journals
Mr.R.Tamilselvan	Smart Home Automation	6 Months	0.19	0.19	The project may lead to presentations at conferences.
Mr G.Suresh	Automatic vehicle Over Speed Detection Alert and Controlling System on Highway	6 Months	0.19	0.19	A tangible prototype for education
			Amount received (Rs.): 0.94		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Mr.M.Baskaran	Density based Traffic signal system	8 months	0.20	0.20	The project may result in publications in peer-reviewed journals.
Mr.V.Gowthaman	Road accident prevention using Arduin	8 Months	0.20	0.20	The project may lead to contributions to the scholarly community through exhibitions.
Mr.G.Suresh	Smart car parking system	8 Months	0.20	0.20	The project may lead to the generation of intellectual property, such as patents
			Amount received (Rs.): 0.60		

(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.P.Ramesh Kumar	IoT based flood monitoring and altering system.	8 Months	0.20	0.20	significant benefits in research, curriculum enhancement, and professional development
Mr.A.Rahul	Integrated vehicle safety system	8 Months	0.21	0.21	Significant benefits in research, curriculum enhancement, and professional development
Mr.M.Baskaran	Attendance management system based on RFID and finger print reader	8 Months	0.20	0.20	Significant benefits in research, curriculum enhancement, and professional development
Mr.V.Gowthaman	IoT based implementation of power saving and gas leakage detector.	8 Months	0.21	0.21	Significant benefits in research, curriculum enhancement, and professional development
Mr.G.Suresh	Raspberry pi-based finger vein recognition system using pcanet.	8 Months	0.21	0.21	Significant benefits in research, curriculum enhancement, and professional development
			Amount received (Rs.): 1.03		

Total amount (Lacs) received for the past 3 years : 2.57

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	DSP/VLSI Lab	30	NI Multisim Academic License 10KVA Uninterruptable Power Supply Systems Netsim Networking Simulation	6 hours	Ms.S.Abarna	Lab Instructor	B.E.-ECE
2	Optical/Microwave Lab	30	Optical Fiber trainer Kit (OFT) with BER Module SMC – Single Mode Fiber Characteristics Setup, Add on to	6 hours	Ms.P.Nishanthi	Lab Instructor	B.E.-ECE
3	Communication Systems Lab	30	Tektronix TDS 2012,100 MHZ, 2 channel, color display Digital Storage Oscilloscope Data Formatting &	6 hours	Mr.C.karthikeyan	Lab Instructor	DECE
4	Electronics/Linear Integrated Circuits Lab	30	Function Generator (FG 702C) Cathode Ray Oscilloscope 30 MHz Dual Trace Model CRO 20 MHz	18 hours	Mr.C.karthikeyan	Lab Instructor	DECE
5	Microprocessor/ Digital Lab	30	ARM Processor , ARM Evaluation Board 8086 Microprocessor Trainer (Micro 86 LC LCD) FDC	18 hours	Ms.S.Abarna	Lab Instructor	B.E.-ECE
6	Embedded /IoT Lab	30	ARM Project Boards with Parallel JTAG & 6 Adaptors Simple GPS Boards with Antenna GSM/GPRS Boards	12 hours	Ms.P.Nishanthi	Lab Instructor	B.E.-ECE

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	DSP/VLSI Lab	• Proper electrical safety practices are followed while handling power supplies, systems, and electronic kits. • Students are instructed to switch off power before making or modifying connections. • Laboratory equipment is operated only under the guidance of faculty or technical staff. • Fire safety equipment such as fire extinguishers is made accessible, and emergency procedures are displayed clearly. • Adequate ventilation and proper seating arrangements are ensured for safe and comfortable working conditions. • Software systems are protected with licensed tools and proper access control to prevent misuse. • Food and beverages are strictly prohibited inside the laboratory. • First-aid facilities are available in case of minor injuries or emergencies.
2	Optical/Microwave Lab	• Proper precautions are followed while handling optical sources, lasers, and microwave equipment to prevent exposure hazards. • Laser sources are operated within permissible power limits, and direct eye exposure is strictly avoided. • Warning signs and safety instructions are clearly displayed near laser and microwave setups. • Microwave equipment is operated only with proper shielding, waveguides, and terminations in place. • Power is switched off before making or altering optical or microwave connections. • Students perform experiments only under the supervision of faculty or technical staff. • Protective equipment such as safety goggles is used when required during optical experiments. • Loose metallic objects are avoided near microwave setups to prevent reflections and accidents. • Fire safety equipment and first-aid facilities are readily available in the laboratory.
3	Communication Systems Lab	• All electrical and electronic equipment is handled following standard safety procedures. • Power supplies are switched off before making or changing circuit connections. • Students are instructed to operate communication trainers, signal generators, and measuring instruments only under faculty or technical staff supervision. • Proper grounding is ensured for all equipment to prevent electrical hazards. • Cables, connectors, and patch cords are checked regularly to avoid loose connections or short circuits. • Exposure to high-frequency signals is minimized by following recommended operating limits. • Fire extinguishers and first-aid kits are available and easily accessible. • Safety instructions and emergency procedures are clearly displayed in the laboratory. • Regular maintenance and inspection of laboratory equipment are carried out to ensure safe operation.
4	Electronics/Linear Integrated Circuits Lab	• All electronic instruments and power supplies are handled with proper care and according to safety guidelines. • Power is switched off before assembling, modifying, or dismantling circuits. • Proper grounding of equipment is ensured to prevent electrical shock and damage to components. • Students use only the specified voltage and current ratings for ICs and electronic components. • Integrated circuits and sensitive components are handled using anti-static precautions where required. • Loose wires and improper connections are avoided to prevent short circuits. • Laboratory equipment is operated only under the supervision of faculty or technical staff. • Fire safety equipment and first-aid facilities are available in the laboratory. • Regular inspection and maintenance of instruments and workbenches are carried out to ensure a safe working environment.
5	Microprocessor/ Digital Lab	• Students must follow all laboratory safety instructions given by the faculty and technical staff. • Power supply should be switched off before inserting or removing ICs, trainer kits, or making circuit connections. • Proper grounding must be ensured while operating microprocessor and digital trainer kits. • ICs and sensitive components should be handled carefully using anti-static precautions. • Only specified voltage levels should be applied to microprocessor and digital circuits. • Loose connections and improper wiring should be avoided to prevent short circuits and equipment damage. • Students should operate laboratory equipment only after understanding the experiment procedure. • Food and beverages are strictly prohibited inside the laboratory. • Any malfunction or damage to equipment should be reported immediately to the laboratory in-charge or technical staff.
6	Embedded /IOT Lab	• Students must follow all safety instructions provided by the faculty and technical staff. • Power supplies should be switched off before making or changing hardware connections. • Embedded boards, sensors, and IoT modules must be handled carefully to avoid physical and electrical damage. • Proper voltage levels and current ratings should be ensured while interfacing sensors and peripherals. • USB ports, adapters, and connecting cables should be used carefully to prevent short circuits. • Wireless modules (Wi-Fi, Bluetooth, RF) should be operated within specified limits to avoid interference and hazards. • Food and beverages are strictly prohibited inside the laboratory. • Any faulty equipment or unsafe condition should be reported immediately to the laboratory in-charge or technical staff. • Fire safety equipment and first-aid facilities are available in the laboratory for emergency situations.

D3. Project Laboratory/Research Laboratory

S.N.	Name of the Laboratory
1	Project laboratory/ Research Laboratory
2	Centre of Excellence for Embedded Systems
3	Texas Instrument Innovation Lab

PROJECT LABORATORY/ RESEARCH LABORATORY

OBJECTIVES

- **Application of Theoretical Knowledge**: Provide students an environment to apply fundamental concepts from electronics, communication, and computer engineering to practical projects and research problems.
- **Innovation and Creativity**: Encourage innovative thinking and creative problem-solving through hands-on experimentation and project development.
- **Technical Skill Development**: Enhance practical skills in circuit design, embedded systems, IoT, VLSI, communication systems, and other ECE domains.
- **Research Orientation**: Introduce students to research methodology, literature survey, experimental setup, data analysis, and documentation.
- **Teamwork and Collaboration**: Promote collaborative work, project planning, and management among students in multi-disciplinary teams.
- **Industry Readiness**: Prepare students for industrial projects, internships, and research roles by exposing them to current tools, technologies, and methodologies.
- **Problem Identification and Solution Development**: Equip students with the ability to identify real-world problems and implement effective solutions using ECE principles.

OUTCOMES

- **Hands-on Competence**: Students gain proficiency in using laboratory instruments, simulation tools, and hardware/software platforms relevant to ECE projects.
- **Design and Implementation Skills**: Ability to design, develop, and test electronic circuits, communication systems, embedded devices, and research prototypes.
- **Analytical and Critical Thinking**: Enhanced ability to analyse problems, evaluate alternatives, and develop optimized solutions.
- **Documentation and Reporting**: Skill in preparing technical reports, research papers, and presentations that effectively communicate project outcomes.
- **Innovation and Entrepreneurship**: Encouragement to explore novel ideas, prototypes, and potential entrepreneurial opportunities.
- **Team and Project Management Skills**: Experience in coordinating tasks, timelines, and responsibilities in a research or project setting.
- **Preparation for Higher Studies**: Students develop research aptitude, laying the foundation for advanced studies or postgraduate research in ECE domains.
- **Ethical and Professional Awareness**: Understanding of ethical practices, intellectual property rights, and professional conduct in engineering research and projects.

LIST OF EQUIPMENT IN PROJECT LAB

S.No.	Name of the Equipment /Software
1.	Arduino Development Boards with Cable
2.	PCB Board
3.	Matlab

CENTRE OF EXCELLENCE FOR EMBEDDED SYSTEMS

OBJECTIVES

- To provide advanced infrastructure and facilities for design, development, and testing of embedded systems and IoT-based solutions.
- To bridge the gap between academic learning and industry requirements through hands-on training on modern embedded platforms and tools.
- To promote innovation, research, and product-oriented learning in embedded systems, real-time operating systems, and IoT applications.
- To enhance students' technical competence in microcontrollers, microprocessors, SoC platforms, sensors, and communication protocols.
- To support interdisciplinary projects, consultancy, and collaborative research with industries and academic institutions.
- To encourage skill development, certification programs, and startup/entrepreneurial activities in embedded technologies.

OUTCOMES

- Students gain in-depth knowledge and practical expertise in embedded system design, programming, debugging, and integration.
- Improved ability to develop real-time, industry-relevant embedded and IoT solutions addressing societal and industrial needs.
- Enhanced employability through exposure to industry-standard tools, development environments, and best practices.
- Increased student participation in research publications, competitions, hackathons, and funded projects related to embedded systems.
- Development of innovative prototypes, proof-of-concept models, and product-oriented solutions.
- Strengthened industry–academia interaction through training programs, internships, consultancy, and collaborative projects.
- Foundation for higher studies, research, and entrepreneurial ventures in embedded systems and allied domains.

LIST OF EQUIPMENT IN TEXAS INSTRUMENT INNOVATION LAB

S.No.	Name of the Equipment /Software
1.	Arduino Development Boards with Cable
2.	PCB Board
3.	Matlab

LIST OF EQUIPMENT IN CENTRE OF EXCELLENCE

S.No.	Name of the Equipment /Software
1.	Arduino Development Boards with Cable
2.	U – Link Debuggers
3.	Transceivers – Xbee
4.	Bluetooth Transceivers
5.	Sensors
6.	Xbee RF Module

UTILIZATION OF PROJECT LABORATORY/ RESEARCH LABORATORY / CENTRE OF EXCELLENCE

PROJECT COUNT	PUBLICATION COUNT	PATENT COUNT
6	6	4

Projects completed and Publications using project laboratory/ research laboratory / centre of excellence:

LIST OF PROJECTS (2024-2025)

S.No.	Name	Project Title	Guide Name	POs	PSOs	SDGs	Type	Justification
1.	JANARTHANAN S (2003)	IoT – Enabled Community Food Sharing Network : A Sustainable Approach to Reduce Food Waste and Enhancing Community Engagement	Dr.C.Aarthi	1,2,3,4,5,6,7,8,9,10,11,12	1,2	SDG:2 Zero hunger	**Project/ Research**	This IoT-based solution minimizes food waste by connecting communities for efficient surplus sharing, promoting sustainability while fostering social interaction through technology-driven resource redistribution.
2.	MANIKANDAN R							
3.	THAMARAISELVAN D							
4.	AJAY S	An IoT based Wearable System using Accelerometers and Machine Learning for Fetal Movement Monitoring	Dr.N.SangeethaPriya	1,2,3,4,5,6,7,8,9,10,11,12 1,2,3,4,5,6,7,8,9,10,11,12	1,2 1,2	SDG:9 Industry, Innovation and Infrastructure	**Capstone/ Application**	This title justifies a smart wearable solution combining IoT, accelerometers, and ML to enable real-time, non-invasive fetal movement tracking for improved prenatal care.
5.	BHUVANESHWARAN K							
6.	KATHIRVEL N							
7.	VIMAL S							
8.	SIVASANGARI S	Deep Leaning based Sign Language Recognition for the Auditory perception, Visual and Mutism Impairment Person	Dr.M.Arunkumar	1,2,3,4,5,6,7,8,9,10,11,12	1,2	SDG 10 (Reduced Inequalities)	**Capstone/ Application**	This project develops an AI-powered sign language translator to bridge communication gaps for deaf, blind, and mute individuals, promoting inclusive digital interaction.
9.	SUHASINI S							
10.	VISHNUPRIYA C							
11.	MUTHARASU S	Image Enhancement using Machine Learning Algorithms	Dr.M.Arunkumar	1,2,3,4,5,6,7,8,9,10,11,12	1,2	SDG:9 Industry, Innovation and Infrastructure	**Project/ Research**	Improves image quality using AI techniques like denoising and super-resolution for medical, satellite, and photography applications with enhanced accuracy and efficiency.
12.	ROHIETN P							
13.	SHIYAMSUNDAR B G							
14.	DHANUSH M(2004)	Controlling Mouse Cursor Action using face and Eye Ball Movement	Mr.A.Rahul	1,2,3,4,5,6,7,8,9,10,11,12	1,2	SDG 10 (Reduced Inequalities)	**Project/ Research**	This project enables hands-free computer interaction through facial and eye tracking, enhancing accessibility for disabled users while demonstrating innovative human-computer interface applications.
15.	GOWTHAM S							
16.	MUTHUKUMAR S							
17.	DAYAMANIKANDAN A T	Integrated GSM – UMB Fibonacci Type antenna with Single, Double and Triple Notched bands	Mr.M.Baskaran	1,2,3,4,5,6,7,8,9,10,11,12	1,2	SDG:9 Industry, Innovation and Infrastructure	**Project/ Research**	This title justifies a compact GSM-UMB antenna design featuring tunable single/double/triple band-notches for interference suppression in multi-band wireless applications, enhancing spectral efficiency.
18.	VETRIVELS							
19.	VINOTHKANNA D							
20.	CHINNADURAI R	Sewage Monitoring and maintenance Alert Using IoT	Mr.P.Sivasankaran	1,2,3,4,5,6,7,8,9,10,11,12	1,2	SDG 11: Sustainable Cities & Communities	**Capstone/ Application**	Real-time sewage monitoring with IoT enables proactive maintenance,

								prevents overflow/ blockages, ensures public health safety, and optimizes resource management through automated alerts and data-driven decisions
21.	GOWTHAM T							
22.	TAMILVALAVAN S							
23.	KALAIMANI A	Signature recognition and Forgery Detection using Deep Learning techniques	Mr.P.Sivasankaran	1,2,3,4,5,6,7,8,9,10,11,12	1,2	SDG:8 Decent work and Economic Growth	**Capstone/ Application**	This project applies deep learning to authenticate signatures and detect forgeries, enhancing security in banking, legal, and identity verification systems with advanced pattern recognition.
24.	PRINCEKUMA R							
25.	SIVABALAN A							
26.	DENSINGHSAMRAJ D	Real Time Hill Station Landslide Monitoring System User Notification System	Mr.G.Suresh	1,2,3,4,5,6,7,8,9,10,11,12	1,2	SDG 13 (Climate Action)	**Capstone/ Application**	This system provides instant landslide alerts to hill station residents and authorities using real-time monitoring, enhancing safety through timely warnings and evacuation coordination.
27.	DHANUSH M(2003)							
28.	GOKUL M							
29.	GOBU V	Adaptive Skin Detection Integration “Thresholding and Convolution Neural Networks”.	Mr.V.Gowthaman	1,2,3,4,5,6,7,8,9,10,11,12	1,2	SDG:3 Good Health and Well being	**Project/ Research**	This title justifies combining adaptive thresholding with CNNs for robust skin detection, enhancing accuracy in varying lighting and complex backgrounds for applications like face recognition.
30.	MAILARASU M							
31.	VINOTHKUMAR G							
32.	MUGESH P	Design and Implementation of Real Time Security Surveillance System Using IoT	Mr.V.Gowthaman	1,2,3,4,5,6,7,8,9,10,11,12	1,2	SDG 16 (Peace, Justice, and Strong Institutions)	**Capstone/ Application**	Enhances security through IoT-enabled real-time monitoring, enabling instant threat detection, remote access, and automated alerts for improved safety and efficient surveillance management.
33.	PAVANAN A							
34.	SELVAGANAPATHI S							
35.	GOKUL K	AI Based redefined Industrial Waste Water for Irrigation	Mr.R.Tamilselvan	1,2,3,4,5,6,7,8,9,10,11,12	1,2	SDG 12 (Responsible Consumption & Production)	**Capstone/ Application**	This project explores AI-driven purification of industrial wastewater for safe agricultural irrigation, optimizing water reuse while ensuring environmental sustainability and crop safety.
36.	VELAVAN H							
37.	VISHWANATHAN V							
38.	JANARTHANAN S(2004)	Voice Controlled Wheel chair for Physically Challenged People	Mr.G.Suresh	1,2,3,4,5,6,7,8,9,10,11,12	1,2	SDG 10: Reduced Inequalities	**Capstone/ Application**	Enables hands-free mobility for disabled users through voice commands, enhancing independence, accessibility, and quality of life with smart, user-friendly technology
39.	LOGESHRAJA P							
40.	SUDHARSAN M							

PUBLICATIONS

41.	SIVARANJANI P	Effective Heart Disease Prediction using Machine Learning Techniques	Mrs.B.Priyanka	1,2,3,4,5,6,7,8,9,10,11,12	1,2	SDG:3 Good Health and Well being	**Capstone/ Application**	Leveraging ML algorithms to accurately predict heart disease enables early diagnosis, improves treatment outcomes, and enhances preventive healthcare strategies for at-risk patients.
42.	SOWMIYA V							

S. No.	Name of the Faculty Member	National / International	Name of the Journal	Title of the Paper	Month & Year of Publication Volume No. Issue No. Page No.
1	Dr.C.Aarthi	International	PREGLAD ELECKTROTECHNICZNY	An Analysis power system fault classifier using neural network	JULY 2024 ISSN: 0037-2097 Page No:96-100
2	Dr.C.Aarthi	International	International Journal of Computational and Experimental	Secured Cyber-Internet Security in Intrusion Detection with Machine Learning Techniques	OCTOBER 2024 Vol. 10 Issue No.4 Page No: 663-670 ISSN: 2149-9144
3	Mrs.D.Ramya	International	Journal of Environmental Nanotechnology	A Complete Review on DC-to-DC Converter Topologies for Energy Sustainable Electro-mobility under Environmentally Heterogeneous Power Conditions	SEPTEMPER 2024 Vol. 13(3) Page No: 161-170
4	Mr.P.Sivasankaran	International	Scientific reports	Hybrid deep models for parallel feature extraction and enhanced emotion state classification	October 2024 Volume 14 Page No:1-17 ISSN 2045-2322
5	Dr.C.Aarthi	International	Frontiers in Plant Science	Classification of tomato leaf disease using Transductive Long Short-Term Memory with an attention mechanism	January 2025
6	Mr.P.Sivasankaran	International	Discover Applied Sciences	Optimized deep learning models for stress-based stroke prediction from EEG signals	May 2025 Volume 7

PATENTS

S.N.	Name of the Faculty	Title of the patent/Working Model	Granted/ Published	Year
1	Dr.C.Aarthi	Waste Collecting Robot in The Ocean	Published 30/05/2025	2025
2	Mr.G.Suresh	Secured E-Voting System Based On Finger Vein Recognition	Published 24/01/2025	2025
3	Dr.C.Aarthi	Advanced Speech Recognition System with Integrated Noise Suppression and Accent Adaptation	Published 10/01/2025	2025
4	Dr.C.Aarthi	IoT based Smart energy management system using distributed ledger Technology	Published 25/10/2024	2025

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)	720	36	33	15	82
2024-25(CAYm1)	720	36	33	19	84
2025-26(CAY)	720	36	33	17	83

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

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

Items	Budgeted in 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	3500000.00	3186522.00	3000000.00	2589740.00	3800000.00	3503854.00	300000.00	90851.00
Library	500000.00	40570.00	400000.00	389939.00	680000.00	593907.00	550000.00	451508.00
Laboratory equipment	5975000.00	1316020.00	5485000.00	4545864.00	3835000.00	3126770.00	6000000.00	4999079.00
Teaching and non-teaching staff salary	95000000.00	62631356.00	90000000.00	86844107.00	88500000.00	77272829.00	52500000.00	45592328.00
Outreach Programs	650000.00	265341.00	600000.00	581647.00	700000.00	627340.00	425000.00	389236.00
R&D	5475000.00	2368954.00	4960000.00	4134123.00	745000.00	537650.00	125000.00	103800.00
Training, Placement and Industry linkage	3350000.00	1946766.00	2490000.00	2077966.32	2750000.00	2282424.00	1125000.00	926503.00
SDGs	17025000.00	12978585.00	13380000.00	11413298.00	14425000.00	12113531.00	17500000.00	14272122.00
Entrepreneurship	200000.00	48100.00	100000.00	12689.00	200000.00	176214.00	50000.00	10000.00
Others, specify	58200000.00	35660073.00	44725000.00	41651893.68	33295000.00	31135505.24	34550000.00	31965516.00
Total	**189875000.00**	**120442287.00**	**165140000.00**	**154241267.00**	**148930000.00**	**131370024.24**	**113125000.00**	**98800943.00**

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

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

Items	Budgeted in 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	675000.00	120850.00	675000.00	557150.00	300000.00	238400.00	550000.00	446000.00
Software	200000.00	47940.00	175000.00	145125.00	325000.00	272800.00	450000.00	372750.00
SDGs	1250000.00	1058600.00	1200000.00	1091325.00	1300000.00	1088650.00	1375000.00	1088250.00
Support for faculty development	25000.00	15800.00	25000.00	15575.00	25000.00	9050.00	50000.00	29800.00
R & D	800000.00	388600.00	775000.00	639000.00	100000.00	87900.00	475000.00	210550.00
Industrial Training, Industry expert, Internship	475000.00	319340.00	375000.00	321000.00	450000.00	373240.00	400000.00	238925.00
Miscellaneous Expenses*	450000.00	337650.00	450000.00	392750.00	250000.00	208750.00	200000.00	210970.00
Total	**3875000.00**	**2288780.00**	**3675000.00**	**3161925.00**	**2750000.00**	**2278790.00**	**3500000.00**	**2597245.00**