

## NATIONAL BOARD OF ACCREDITATION

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

<b>Program Name</b> : Electronics & Communication Engineering	<b>Discipline</b> : Engineering & Technology
<b>Level</b> : Under Graduate	<b>Tier</b> : 1
<b>Application No</b> : 11518	<b>Date of Submission</b> : 23-01-2026

### PART A- Profile of the Institute

<b>A1.Name of the Institute:</b> KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	
Year of Establishment : 2009	Location of the Institute: Coimbatore
<b>A2. Institute Address:</b> S.F No. 204/2, 204/4, Arasur,Coimbatore	
City:Coimbatore	State:Tamil Nadu
Pin Code:641407	Website:www.kpriet.ac.in
Email:principal@kpriet.ac.in	Phone No(with STD Code):0422-2635600
<b>A3. Name and Address of the Affiliating University (if any):</b>	
Name of the University : Anna University Chennai	City: Chennai
State : Tamil Nadu	Pin Code: 600025
<b>A4. Type of the Institution:</b> Autonomous CAY(2019-20)	
<b>A5. Ownership Status:</b> Self financing	

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

- No. of UG programs: 13
- No. of PG programs: 6

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Artificial Intelligence and Data Science	2020	--	Artificial Intelligence and Data Science
2	Engineering & Technology	UG	Biomedical Engineering	2017	--	Biomedical Engineering
3	Engineering & Technology	PG	CAD/CAM	2012	--	Mechanical Engineering
4	Engineering & Technology	UG	Chemical Engineering	2018	--	Chemical Engineering
5	Engineering & Technology	UG	Civil Engineering	2009	--	Civil Engineering
6	Engineering & Technology	UG	Computer Science and Business System	2022	--	Computer Science and Business System
7	Engineering & Technology	UG	Computer Science and Engineering	2010	--	Computer Science and Engineering
8	Engineering & Technology	PG	Computer Science and Engineering	2014	--	Computer Science and Engineering

9	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2022	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
10	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2025	--	Computer Science and Engineering (Cyber Security)
11	Engineering & Technology	PG	Data Sciences	2025	--	Artificial Intelligence and Data Science
12	Engineering & Technology	UG	Electrical and Electronics Engineering	2009	--	Electrical and Electronics Engineering
13	Engineering & Technology	UG	Electronics & Communication Engineering	2009	--	Electronics and Communication Engineering
14	Engineering & Technology	UG	Information Technology	2022	--	Information Technology
15	Engineering & Technology	UG	Mechanical Engineering	2009	--	Mechanical Engineering
16	Engineering & Technology	UG	Mechatronics Engineering	2022	--	Mechatronics Engineering
17	Engineering & Technology	PG	Structural Engineering	2014	--	Civil Engineering
18	Engineering & Technology	PG	VLSI Design	2012	--	Electronics and Communication Engineering
19	Management	PG	Master of Business Administration	2024	--	Management

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

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

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

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

No Record
-----------

## PART-B: Program information

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

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY APPROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Electronics & Communication Engineering	UG	2009 / --	60	Yes	2025	240	2025	F.No. Southern/1-44642882199/2025/EOA Date:30.04.2025	Granted accreditation for 3 years for the period (specify period)	2023	2026	1	4

Sanctioned Intake for Last Five Years for the Electronics & Communication Engineering	
Academic Year	Sanctioned Intake
2025-26	240
2024-25	180
2023-24	120
2022-23	120
2021-22	180
2020-21	180

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

**B3. Program Details**

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	240	180	120	120	180	180	180
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	240	180	120	119	180	178	134
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	17	10	12	17	20	18
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	27	21	9	8	9	9	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	267	218	139	139	206	207	152

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)	240	240	27	111.25
2024-25 (CAYm1)	180	180	21	111.67
2023-24 (CAYm2)	120	120	9	107.50

Average  $[(ER1 + ER2 + ER3) / 3] = 110.14 \approx 100$

#### 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).	206.00	207.00	198.00
B=No. of students who graduated from the program in the stipulated course duration	192.00	197.00	149.00

Average SR of three batches  $((SR_1 + SR_2 + SR_3)/3)$ : 90.38

#### 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)	7.97	7.70	7.51
Y=Total no. of successful students	189.00	125.00	126.00
Z=Total no. of students appeared in the examination	201.00	129.00	127.00
API $[X*(Y/Z)]$	7.49	7.46	7.45

Average API  $[(AP1+AP2+AP3)/3]$  : 7.47

#### 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 2nd year/10)	7.91	7.76	7.70
Y=Total no. of successful students	129.00	134.00	193.00
Z=Total no. of students appeared in the examination	135.00	138.00	198.00
API $[ X * (Y/Z) ]$	7.56	7.54	7.51

Average API  $[(AP1 + AP2 + AP3)/3]$  : 7.54

#### 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)	7.87	7.78	7.76
Y=Total no. of successful students	132.00	192.00	198.00
Z=Total no. of students appeared in the examination	134.00	193.00	202.00
API [ X*(Y/Z) ]:	7.75	7.74	7.61

Average API [ (AP1 + AP2 + AP3)/3 ] : 7.70

### 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	197.00	200.00	198.00
X=No. of students placed	181.00	171.00	127.00
Y=No. of students admitted to higher studies	8.00	18.00	11.00
Z= No. of students taking up entrepreneurship	2.00	2.00	0.00
Placement Index(P) = $((X + Y + Z)/FS) * 100$ :	96.95	95.50	69.70

Average Placement Index =  $(P_1 + P_2 + P_3)/3$ : 87.38 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. Kathirvelu M	XXXXXXX66E	Ph.D	ANNA UNIVERSITY	VLSI Design	25/05/2020	5.7	Professor	Professor	25/05/2020	Regular	Yes		Yes
2	Dr. Kalamani M	XXXXXXX32P	Ph.D	ANNA UNIVERSITY	Speech Signal processing	07/05/2021	4.8	Associate Professor	Professor	01/08/2022	Regular	Yes		No
3	Dr. Kalirajan K	XXXXXXX99K	Ph.D	ANNA UNIVERISTY	Image and Video Processing	27/08/2018	7.4	Associate Professor	Professor	01/08/2022	Regular	Yes		No
4	Dr. Indra J	XXXXXXX38A	Ph.D	ANNA UNIVERSITY	Speeech Signal Proessing	04/06/2021	4.7	Associate Professor	Professor	01/04/2022	Regular	Yes		No
5	Dr. Venugopal D	XXXXXXX93B	Ph.D	ANNA UNIVERSITY	Medical Image Processing	02/01/2018	8	Professor	Professor	02/01/2018	Regular	Yes		No
6	Dr. Ramesh S M	XXXXXXX30M	Ph.D	ANNA UNIVERSITY	Image Processing	31/08/2020	5.4	Professor	Professor	31/08/2020	Regular	Yes		No

7	Dr. Maheswar R	XXXXXXX65A	Ph.D	ANNA UNIVERSITY	Wireless Sensor Networks	02/05/2022	3.8	Professor	Professor	02/05/2022	Regular	Yes		No
8	Dr. Jaishankar B	XXXXXXX51A	Ph.D	ANNA UNIVERSITY	Signal Processing	03/06/2011	14.7	Assistant Professor	Professor	01/08/2022	Regular	Yes		No
9	Dr. Seethalakshmi V	XXXXXXX04B	Ph.D	ANNA UNIVERSITY	Wireless Sensor and Adhoc Networks	01/06/2017	8.7	Associate Professor	Professor	01/08/2022	Regular	Yes		No
10	Dr. Muralidharan J	XXXXXXX14B	Ph.D	KARPAGAM ACADEMY OF HIGHER EDUCATION	VLSI Design	20/01/2020	6	Associate Professor	Associate Professor	20/01/2020	Regular	Yes		No
11	Dr. Jaikumar R	XXXXXXX69J	Ph.D	ANNA UNIVERSITY	VLSI and IoT	06/07/2022	3.6	Associate Professor	Associate Professor	06/07/2022	Regular	Yes		No
12	Dr. Gurumoorthy K B	XXXXXXX93G	Ph.D	ANNA UNIVERSITY	Wireless Sensor and Adhoc Networks	11/07/2022	3.6	Associate Professor	Associate Professor	11/07/2022	Regular	Yes		No
13	Dr. Murugan K	XXXXXXX61R	Ph.D	ANNA UNIVERSITY	Digital Image processing	14/06/2019	6.7	Assistant Professor	Associate Professor	01/08/2022	Regular	Yes		No
14	Dr. Finney Danial Shadrach S	XXXXXXX79Q	Ph.D	ANNA UNIVERSITY	Image Processing	01/07/2013	12.6	Assistant Professor	Associate Professor	01/01/2025	Regular	Yes		No
15	Dr. Pandiyan P	XXXXXXX95N	Ph.D	NATIONAL INSTITUTE OF TECHNOLOGY, TRICHY	MEMS	01/06/2025	0.7	Associate Professor	Associate Professor	01/06/2025	Regular	Yes		No
16	Mr. Jakir Hussain G k	XXXXXXX54B	M.E.	KARPAGAM ACADEMY OF HIGHER EDUCATION	Wireless Communication	03/07/2017	8.6	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Dr. Prasad J	XXXXXXX07D	Ph.D	ANNA UNIVERSITY	Analog and Digital VLSI Design	31/08/2021	4.4	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Dr. Nithya S	XXXXXXX83H	Ph.D	ANNA UNIVERSITY	Wireless Communication	02/05/2012	13.8	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Dr. Jagadesh T	XXXXXXX15H	Ph.D	SATHYABAMA UNIVERSITY	Signal Processing	15/06/2018	7.7	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Mr. Pradeepkumar G	XXXXXXX51L	M.E.	ANNA UNIVERSITY	Image Processing	01/06/2020	5.7	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Mr. Shanmugaraja T	XXXXXXX84J	M.E.	ANNA UNIVERSITY	VLSI Design	21/06/2017	8.7	Assistant Professor	Assistant Professor		Regular	Yes		No
22	Mr. Ramnivas D	XXXXXXX10E	M.E.	ANNA UNIVERSITY	Digital Image processing	04/06/2021	4.7	Assistant Professor	Assistant Professor		Regular	Yes		No

23	Ms. Gunanandhini S	XXXXXXXX10M	M.E.	ANNA UNIVERSITY	Wireless Communication	15/06/2018	7.7	Assistant Professor	Assistant Professor		Regular	Yes		No
24	Ms. Priyadarshini S	XXXXXXXX46H	M.E.	ANNA UNIVERSITY	Antenna Design	04/05/2022	3.8	Assistant Professor	Assistant Professor		Regular	Yes		No
25	Ms. Saranya M D	XXXXXXXX59C	M.E.	ANNA UNIVERSITY	Wireless Sensor Networks	01/06/2020	5.7	Assistant Professor	Assistant Professor		Regular	Yes		No
26	Ms. Supriya M	XXXXXXXX15L	M.E.	ANNA UNIVERSITY	VLSI Design	01/08/2020	5.5	Assistant Professor	Assistant Professor		Regular	Yes		No
27	Dr. Vigneswaran D	XXXXXXXX16M	Ph.D	ANNA UNIVERSITY	Photonics	14/10/2022	3.3	Assistant Professor	Assistant Professor		Regular	Yes		No
28	Dr. Singaram M	XXXXXXXX50J	Ph.D	ANNA UNIVERSITY	Filter and Antenna Design	01/07/2013	12.6	Assistant Professor	Assistant Professor		Regular	No	30/11/2025	No
29	Dr. Sharmila D	XXXXXXXX09H	Ph.D	ANNA UNIVERSITY	Wireless Security	18/02/2021	3.11	Professor	Professor	18/02/2021	Regular	No	30/01/2025	No
30	Dr. James Deva Koresh H	XXXXXXXX85H	Ph.D	KARUNYA UNIVERSITY	Image Processing	15/02/2023	2.4	Assistant Professor	Assistant Professor		Regular	No	27/06/2025	No
31	Dr. Sathishkumar N	XXXXXXXX14A	Ph.D	ANNA UNIVERSITY	Antenna	06/06/2013	12	Assistant Professor	Assistant Professor		Regular	No	30/06/2025	No
32	Mr. Satheeskumar S	XXXXXXXX14K	M.E.	ANNA UNIVERSITY	Artificial Intelligence	01/06/2020	4.10	Assistant Professor	Assistant Professor		Regular	No	30/04/2025	No
33	Dr. Tamil Selvan K S	XXXXXXXX65R	Ph.D	ANNA UNIVERSITY	Embedded System Design	23/12/2019	4.7	Associate Professor	Professor	01/07/2021	Regular	No	30/07/2024	No
34	Dr. Arijit De	XXXXXXXX47C	Ph.D	UNIVERSITY OF CALCUTTA	Wireless Communication	19/08/2024	1.1	Associate Professor	Associate Professor	19/08/2024	Regular	Yes		No
35	Dr. Archita Hore	XXXXXXXX77K	Ph.D	IIT KHARAGPUR	Neuromorphic Circuits	05/08/2024	1.5	Assistant Professor	Assistant Professor		Regular	Yes		No
36	Dr. Rima Deka	XXXXXXXX51H	Ph.D	IIIT GUWAHATI	Wireless Communication	06/08/2024	1.5	Assistant Professor	Assistant Professor		Regular	Yes		No
37	Dr. Ashish Ranjan Shadangi	XXXXXXXX47G	Ph.D	IIT KHARAGPUR	VLSI Architecture for Next Generation Communication	27/08/2024	0.11	Assistant Professor	Assistant Professor		Regular	Yes		No
38	Dr. Himangshu Deka	XXXXXXXX16P	Ph.D	NIT SILCHAR	Solar photovoltaic / Semiconductor Device	29/08/2024	0.11	Assistant Professor	Assistant Professor		Regular	Yes		No
39	Dr. Sharmi Ganguly	XXXXXXXX01R	Ph.D	IIT KHARAGPUR	Electronic Material Synthesis and Applications	19/06/2025	0.4	Assistant Professor	Assistant Professor		Regular	Yes		No
40	Ms. Anju T S	XXXXXXXX27P	M.Tech	KERALA UNIVERSITY	Signal Processing	14/07/2025	0.6	Assistant Professor	Assistant Professor		Regular	Yes		No

41	Dr. Suganyadevi S	XXXXXXXX17M	Ph.D	ANNA UNIVERSITY	Medical Image Processing	01/08/2022	3.5	Assistant Professor	Assistant Professor		Regular	Yes		No
42	Dr. Debashish Pal	XXXXXXXX46K	Ph.D	Tripura University	Nanotechnology	02/08/2024	1.3	Assistant Professor	Assistant Professor		Regular	No	29/11/2025	No

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

## C2. Student-Faculty Ratio (SFR)

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

UG1=1st UG program

UGn=nth UG program

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

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

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

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

PG1=1st PG program.

PGm=mth PG program

**A**= No. of Students in PG 1st year

**B**= No. of Students in PG 2nd year

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

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

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

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

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

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

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	198	130	132
UG1.C	130	132	197
UG1.D	132	197	198
<b>UG1: Electronics &amp; Communication Engineering</b>	<b>460</b>	<b>459</b>	<b>527</b>
PG1.A	18	18	18
PG1.B	18	18	18
<b>PG1: VLSI Design</b>	<b>36</b>	<b>36</b>	<b>36</b>
DS=Total no. of students in all UG and PG programs in the Department	496	495	563
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)	<b>S1= 496</b>	<b>S2= 495</b>	<b>S3= 563</b>
DF=Total no. of faculty members in the Department	35	37	33
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)	<b>F1= 35</b>	<b>F2= 37</b>	<b>F3= 33</b>
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)	<b>SFR1= 14.17</b>	<b>SFR2= 13.38</b>	<b>SFR3= 17.06</b>

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
Average SFR for 3 years	SFR= 14.87		

### C3. Faculty Qualification

- Faculty qualification index (FQI) =  $2.5 \times [(10X + 4Y)/RF]$  where
- X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms.
- Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/ UGC norms.
- RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section C2 of this documents: (RF=S/20).

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = $2.5 \times [(10X + 4Y) / RF]$
2025-26(CAY)	25	10	24.00	30.21
2024-25(CAYm1)	22	15	24.00	29.17
2023-24(CAYm2)	21	12	28.00	23.04

### C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required =  $1/9 \times$  No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents:.
- RF2= No. of Associate Professors required =  $2/9 \times$  No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.
- RF3= No. of Assistant Professors required =  $6/9 \times$  No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.
- Faculty cadre and qualification and experience should be as per AICTE/UGC norms.

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	2.00	9.00	5.00	7.00	16.00	19.00
2024-25	2.00	9.00	5.00	5.00	16.00	23.00
2023-24	3.00	11.00	6.00	4.00	18.00	18.00
Average	RF1=2.33	AF1=9.67	RF2=5.33	AF2=5.33	RF2=16.67	AF2=20.00

### 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. Pavithran R	Adjunct Faculty	CTS	C programming, Data structures	60.00
2	Dr. Kyung Tae KIM	Visiting Professor	Hanam University, South Korea.	Digital Signal Processing	60.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Ms. Mathavi N	Visiting Professor	TCS	Digital Signal Processing, Circuit Analysis	60.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Ms. Mathavi N	Visiting Professor	TCS	Digital Signal Processing, Circuit Analysis	60.00

#### 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	60	58	40
2	No. of peer reviewed conference papers published	57	41	82
3	No. of books/book chapters published	10	14	18

#### 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. S. Parthiban	Dr. R. Maheswar	ECE	High-Performance Amorphous Oxide Semiconductors Thin-film Transistors for AMOLED Applications	SERB-ANRF	3 years	29.20
Dr. V. Seethalakshmi	Dr. S. Nithya	ECE	From Theory to Practice: Millimeter Wave & THz antennas for Modern Applications	SERB	21/08/2024	2.50
Dr. K. Murugan	Ms. M. Supriya	ECE	Empowering Healthcare with AI and ML: Advances and Applications	ATAL	13/09.2024	1.00
Mr. D. Ram Nivas	-	ECE	MediBot-IoT driven health care for remote communities	TNSCST	6 Months	0.08
Dr. M. Kathirvelu	-	ECE	AI enabled water well predictor	TNSCST	6 Months	0.08
Dr. D. Venugopal	Dr. S. Finney Daniel Shadrach	ECE	-	IEEE ComSoc	6 Months	0.30
Dr. V. Seethalakshmi	-	ECE	Automated Pipeline leakage detection and control system for sustainable rural development and enhanced water quality management	UBA	1 year	1.00
Dr. S. Nithya	-	ECE	Smart baby cradle system	TNSCST	6 Months	0.08
						Amount received (Rs.):34.24

(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. J. Indra	Dr. J. Muralidharan	ECE	Recent Trends in semiconductor system Design and Testing Techniques	ATAL	-	3.50
Dr. J. Indra	Dr. R. Jaikumar, Ms. S. Suganyadevi	ECE	National Seminar on securing wireless communication in defence	DRDO	-	0.20
Dr. D. Venugopal	-	ECE	IEEE ComSoc Student Branch Chapter	IEEE	6 Months	0.41
						Amount received (Rs.):4.11

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Mr. M. Singaram	Mr. V. Chandraprasad	ECE	National Seminar on Modern Antenna Design for 5G and Related Applications	DRDO	-	0.20
Mr. D. Ram Nivas	Ms. S. Chandrababha	ECE	Navigation Assistance Tool	MSME	3 Years	12.33
Mr. S. Satheesh Kumar	Dr. M. Kathirvelu, Dr. J. Muralidharan, Dr.J.Prasad	ECE	Modern Electrophoresis Device for Early Detection of Sickle Cell Anemia Among the Tribal Communities in India	MSME	3 Years	12.33
Mr. S. Satheesh Kumar	Mr. D. Ram Nivas	ECE	Electronics Packaging and Testing	CFD Anna University	3 Months	0.30
Dr. D. Venugopal	Mr. T. Venkatesh	ECE	Recent Trends in Artificial Intelligence, Advanced Communication and Smart Systems	AICTE	-	2.62
Dr. M. Kathirvelu	Dr. K .S. Tamilselvan, Ms. S. Suganyadevi	ECE	Integrated Care Model for Mental and Neurological Disorders	ICMR	-	7.44
						Amount received (Rs.):35.22

**Total Amount (Lacs) Received for the Past 3 Years: 73.57**

**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. V. Seethalakshmi	-	ECE, KPRIET	Triband Antenna Design	Dr.Mahalingam College of Engineering and Technology	25.09.24-05.10.2024	0.03
Dr. V. Seethalakshmi	-	ECE, KPRIET	Dielectric Antenna Design (Material Pellet)	PSGR Krishnammal College for Women	28.11.2024	0.05
Dr. S. Finney Daniel Shadrach	-	ECE, KPRIET	PCB Fabrication	Chip Crafts	10.12.2024	0.09
Dr. B. Jaishankar	Dr. T. Jagadesh	ECE, KPRIET	Water Level Controller	New Technology	17.12.2024	0.06
Dr. V. Seethalakshmi	-	ECE, KPRIET	FSS for Shielding	KPR Institute of Engineering and Technology	04.12.2024	0.02
Dr. V. Seethalakshmi	-	ECE, KPRIET	Antenna Design	Dr.Mahalingam College of Engineering and Technology	17.12.2024	0.06
Dr. V. Seethalakshmi	-	ECE, KPRIET	Antenna Design	Kumaraguru College of Technology	26.12.2024	0.04
Dr. M. Kalamani	Dr. R. Jaikumar, Ms. S. Priyadharsini	ECE, KPRIET	Automation of ICT Auto Trimmer Testing Antenna Fabrication	V-Guard Industries	May 2023 to November 2024	0.69
Dr. M. Kalamani	Dr. R. Jaikumar, Ms. S. Priyadharsini	ECE, KPRIET	Design of PCB Testing Jig and its Automation	V-Guard Industries	May 2023 to November 2024	1.48
Dr. V. Seethalakshmi	-	ECE, KPRIET	Antenna Design	Karunya Institute of Technology and Science	27.12.2024-23.1.25	0.05
Dr. V. Seethalakshmi	-	ECE, KPRIET	SIW Antenna Design	KPR Institute of Engineering and Technology	03.02.2025	0.02
Dr. V. Seethalakshmi	-	ECE, KPRIET	Triband Antenna Design	KPR Institute of Engineering and Technology	04.02.2025	0.02
Dr. V. Seethalakshmi	-	ECE, KPRIET	Triband Antenna Design	Nimble Wireless Private Limited	20.02.2025	0.12
Dr. V. Seethalakshmi	-	ECE, KPRIET	Antenna Design	1) A.Thivyatharshini UG Student, KPRIET, Coimbatore 2) K.Naveen Hardware Engineer, Nimble Wireless Pvt. Ltd.	24.03.2025	0.13
Dr. V. Seethalakshmi	-	ECE, KPRIET	Consultancy chargers for PCB fabrication	Chip Crafts, No.2, First Floor, STV Nagar, Peelamedu, Coimbatore - 641004	27.03.2025	0.26
Dr. V. Seethalakshmi	-	ECE, KPRIET	Antenna Design	Balamuruges, CEO, Silicon Systems	30.03.2025	0.05
Dr. V. Seethalakshmi	-	ECE, KPRIET	Antenna Fabrication and implantable Antenna Bow the antenna for metal detection	1. S.Manju Student MCET 2.Dr.K.Ramasamy Dean Research, KKIT, Coimbatore 3. M.Elwin Student SNS College of Technology	23.04.2025	0.08
Dr. V. Seethalakshmi	-	ECE, KPRIET	Pet Monitor Device	K.Naveen Hardware Engineer Nimble Wireless Pvt. Ltd.	24.04.2025	0.02
Dr. V. Seethalakshmi	-	ECE, KPRIET	Broad Band Patch Antenna	1. Hari Ganesh Student SREC 2. Sreeja UG Student KPRIET	30.04.2025	0.04
Dr. S. Finney Daniel Shadrach	-	ECE, KPRIET	PCB Fabrication	Pioneer Circuits, 30/2-A-1, Doctor's Thottam, Parasakthi Nagar, Ganapathy, Coimbatore - 641006	11.03.2025	0.27
Dr. S. Finney Daniel Shadrach	-	ECE, KPRIET	PCB Design and Fabrication	Nandha College of Technology, Erode	07.04.2025	0.09
Dr. T. Jagadesh	-	ECE, KPRIET	Antenna Design	R.Gokul Ananth, PSG College of Technology, Coimbatore	15.04.2025	0.03
Dr. S. Finney Daniel Shadrach	-	ECE, KPRIET	PCB Design and Fabrication	Nandha College of Technology, Erode	15.05.2025	0.11
Dr. J. Muralidharan	-	ECE, KPRIET	Antenna Design	Silicoen Systems, 15/29, Mahaliyamman Nagar, Kalapatti, Coimbatore - 641048	15.04.2025	0.70

Dr. S. Finney Daniel Shadrach	-	ECE, KPRIET	PCB Design and Manufacturing	Nandha College of Technology, Erode	29.05.2025	0.12
Dr. M. Singaram	-	ECE, KPRIET	Antenna design	G.Geethanjali Ph.D. Scholar College of Engineering Guindy Campus, Anna University, Chennai	03.03.2025	0.12
Ms. M. D. Saranya	-	ECE, KPRIET	Design of Antenna using CST	Mohana Sundar, Student, Vellalar College of Engineering and Technology	14.03.2025	0.02
Dr. K. Kalirajan	-	ECE, KPRIET	Simulation of Wearable Antenna Design using CST	Dr.K.Aravindhan, Associate Professor, School of Computing and Information Technology, Reva University, Bangalore	19.03.2025	0.10
Dr. M. Singaram	-	ECE, KPRIET	Antenna design	P.Kannappan MIT Campus, Anna University, Chennai M.Santhoshi, S.Saran KPRIET	05.05.2025	0.12
Dr. S. M. Ramesh	-	ECE, KPRIET	Antenna Fabrication	B.Janani Dr.NGP Institute of Technology, Coimbatore - 641035	13.05.2025	0.10
Dr. K. Kalirajan	-	ECE, KPRIET	PCB Design for ESP32-Based Smart Saline Level Monitoring System	K.Jeeveeka Vivekanandha College of Engineering for Women, Elayampalayam, Tiruchengode, Namakkal - 637205	13.05.2025	0.02
Dr. K. Kalirajan	-	ECE, KPRIET	Design of Dual Band Frequency Selective Surfaces for Shielding applications	K.P.Keerthana Jansons Institute of Technology, Karumathampatti, Coimbatore - 641659	13.05.2025	0.10
						Amount received (Rs.):5.21

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. V. Seethalakshmi	-	ECE, KPRIET	Flexible Antenna for Wearable application	PSG College of Technology	29.11.2023	0.03
Dr. V. Seethalakshmi	-	ECE, KPRIET	Flexible Antenna for Wearable application	PSG College of Technology	23.12.2023	0.05
Dr. V. Seethalakshmi	-	ECE, KPRIET	Multiband Antenna for Wifi	Sri Ramakrishna Engineering College	18.01.2024	0.10
Dr. V. Seethalakshmi	-	ECE, KPRIET	Wide band Antenna	Sri Ramakrishna Engineering College	24.02.2024	0.02
Dr. V. Seethalakshmi	-	ECE, KPRIET	Wide band Antenna	Sri Ramakrishna Engineering College	08.03.2024	0.02
Dr. V. Seethalakshmi	-	ECE, KPRIET	Flexible Antenna	PSG College of Technology	02.04.2024	0.03
Dr. V. Seethalakshmi	-	ECE, KPRIET	Dual band Antenna for 5G and Wimax	Sri Ramakrishna Engineering College	16.04.2024	0.03
Dr. V. Seethalakshmi	-	ECE, KPRIET	Fabric based textile antenna for healthcare applications	KPR Institute of Engineering and Technology	24.04.2024	0.02
Dr. V. Seethalakshmi	-	ECE, KPRIET	Dielectric resonator Antenna	PSGR Krishnammal College for Women	02.05.2024	0.02
Dr. V. Seethalakshmi	-	ECE, KPRIET	PIFA Antenna testing	Anna University Regional Campus	07.05.2024	0.02
Dr. V. Seethalakshmi	-	ECE, KPRIET	Metamaterial Reconfigurable Antenna	Dhanalakshmi Srinivasan College of Engineering	14.05.2024	0.02
Dr. V. Seethalakshmi	-	ECE, KPRIET	Single port slot antenna design for GPS application	Amirtha Viswa Vidyapeetham	22.6.2024	0.02
						Amount received (Rs.):0.38

(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. K. S. Tamilselvan	-	ECE,KPRIET	Design and development of IR based vein detector	Bharat Medical Systems, Chennai	1 year	0.12
Dr. S. Finney Daniel Shadrach	-	ECE,KPRIET	PCB Fabrication	RS Power Systems, Coimbatore	3 weeks	0.04
Dr. S. Finney Daniel Shadrach	-	ECE,KPRIET	PCB Fabrication	Lumen Systems, Coimbatore	10 days	0.02
Dr. S. Finney Daniel Shadrach	-	ECE,KPRIET	PCB Fabrication	Chip Crafts, Coimbatore	2 Weeks	0.26
Dr. M. Kalamani	-	ECE,KPRIET	Smart Heat Pump Water Heater using IoT	V-Guard Industries, Erode	1 year 4 months	0.25
Dr. K. S. Tamilselvan	Mr. G. K. Jakir Hussain	ECE,KPRIET	Battery Management System using LoRaWAN	Enthu Technology Solutions India Private Limited,Coimbatore	1 month	1.04
Dr. K. B. Gurumoorthy	Dr. S. Nithya	ECE,KPRIET	Design of Software Defined Radio Module with Frequency range upto 3.5GHz	Mighty Electronics Equipments Corporation, Coimbatore	1 month	1.11
Mr. K. Saravanan	Mr. T. Venkatesh	ECE,KPRIET	PCB Fabrication	Chip Crafts, Coimbatore	1 month	0.28
Dr. M. Kalamani	Dr. R. Jaikumar Ms. S. Priyadharsini Ms.S.Gunanandhini	ECE,KPRIET	Design and Development of Digital Learning Platform	V-Guard Industries, Erode	1 month	0.24
Dr. D. Vigneswaran	-	ECE,KPRIET	Research consultancy	Jouf University, Saudi Arabia	7 months	0.73
Dr. S. Finney Daniel Shadrach	-	ECE,KPRIET	PCB Design and Fabrication	Government Polytechnic College, Coimbatore Vellalar College of Engineering and Technology, Erode	2 weeks	0.20
						Amount received (Rs.):4.29

**Total amount (Lacs) received for the past 3 years: 9.88**

**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. J. Indra	Smart Prosthetics	4 months	0.10	0.10	Award-winning hackathon participation
Mr. D. Ram Nivas	Vision System for Real-Time Path Guidance	3 months	0.10	0.10	Prototype developed and Publication
Dr. T. Jagadesh	Underwater Inspection using Submerge Bot	3 months	0.10	0.10	Working model developed
Dr. R. Jaikumar	Adaptive headlights	3 months	0.10	0.10	Working model developed
Dr. V. Seethalakshmi	Smart Pill Dispenser for Chronic Diseases	2 months	0.05	0.05	Patent Publication
Dr. K. Murugan	Hybrid EV Charger	5 months	0.09	0.09	Award-winning hackathon participation
			Amount received (Rs.): 0.54		

**(CAYm2)**

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr. J. Indra	Enhancing the supply chain by unleashing the potential of blockchain technology	5 months	0.20	0.20	Working prototype developed
Ms. S. Gunanandhini	Robo Racing	4 months	0.29	0.29	Award-winning hackathon participation
Dr. M.Kalamani	Multimotor	4 months	0.12	0.12	Award-winning hackathon participation
Dr. M.Kalamani	Aeroglisneur	3 months	0.05	0.05	Prize-winning hackathon participation
Mr. G. PradeepKumar	Multimotor	4 months	0.06	0.06	Prize-winning hackathon participation
Mr. G. PradeepKumar	Robo oceana	5 months	0.15	0.15	Award-winning hackathon participation
Mr. G. PradeepKumar	Aeroglisneur	3 months	0.07	0.07	Prize-winning hackathon participation
Ms. S. Gunanandhini	Hovermania	4 months	0.20	0.20	Prize-winning hackathon participation
Ms. S. Gunanandhini	Robo oceana	5 months	0.20	0.20	Award-winning hackathon participation
Ms. S. Gunanandhini	Aeroglisneur	3 months	0.12	0.12	Award-winning hackathon participation
Mr. G. K. Jakir Hussain	Robot	4 months	0.03	0.03	Prize-winning hackathon participation
Mr. G. K. Jakir Hussain	Robot	4 months	0.04	0.04	Prize-winning hackathon participation
Ms. M. Supriya	e-yantra Robotics completion	6 months	0.09	0.09	Award-winning hackathon participation
			Amount received (Rs.): 1.62		

(CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Mr Satheesh Kumar S	Modern Electrophoresis device	2 years	2.18	2.18	Prototype developed and publication
Mr Ram Nivas D	Navigation Tool	2 years	2.18	2.18	Prototype developed and publication
Mr Satheesh Kumar S, Ms M D Saranya	Smart Asset Tracking System	6 months	0.30	0.30	Prototype developed
Dr M Kalamani, Mrs S Priyadharsini	Cloud-Enabled Smart Alerting System	6 months	0.20	0.20	Prototype developed and patent publication
			Amount received (Rs.): 4.86		

Total amount (Lacs) received for the past 3 years : 7.02

## 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	Electronic Devices and Circuits Laboratory	3	1. Digital Storage Oscilloscope 2. Cathode Ray Oscilloscope 3. Function generator 4. Regulated Power Supply 5. Analog & Digital IC Tester 6. Analog & Digital	70%	Ms. Sudha P	Lab Technician	DECE
2	Linear Integrated Circuits Laboratory	3	1. Digital Trainer Kit 2. Function generator 3. Regulated Power Supply 4. Digital Storage Oscilloscope 5. Cathode Ray Oscilloscope	70%	Ms. Sudha P	Lab Technician	DECE
3	Microprocessor and Microcontroller Laboratory	3	1. Microprocessor 8085 and 8086 Trainer Kit 2. Microcontroller 8051 Trainer Kit 3. 8255, 8251, 8259 & 8279 Interface Board 4. ADC & DAC Kits 5. ROM/EEPROM	85%	Mr. Santhosh T	Lab Technician	DEEE
4	Embedded Systems Laboratory	3	1. ARM Controller Boards 2. FPGA Development Boards 3. IEEE 802.11 based Wireless modules 4. Temperature, Humidity, Ultrasonic, Pressure and Water	85%	Mr. Santhosh T	Lab Technician	DEEE
5	Optical and Microwave Laboratory	3	1. Fiber optic, LED Trainer Kit 2. WDM Kit 3. Radiation Pattern of Horn Antenna 4. Microwave Test Bench 5. Fiberoptic components 6. PD Modules	85%	Mr. Ponraj Karthick MU	Lab Technician	DEEE
6	Communication Laboratory	3	1. Trigram S2R-1 CST Studio Suite Research base pack 2. Digital Storage Oscilloscope 3. Function Generator 4. Analog signal sampling & Reconstruction	85%	Mr. Ponraj Karthick MU	Lab Technician	DEEE
7	Digital Signal Processing Laboratory	3	1. Desktop Computer. 2. DSP Trainer Kit - TMS320C50, C6713, C5416. 3. MATLAB & SIMULINK 4. C6713 DSP Trainer Kit 5. Digital Storage Oscilloscope 6. LAN	75%	Mr. Raveendhar V	Lab Technician	B.E. ECE
8	VLSI Laboratory	3	1. Universal FPGA Trainer Kit 2. Universal PIC Microcontroller Trainer 3. Logic Analyzer 4. Mixed Mode 5. Altera Cyclone II Board 6.	75%	Mr. Raveendhar V	Lab Technician	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	Analog and Digital Circuits Laboratory	1. Safety precaution rules are displayed. 2. First aid box is available in the laboratory. 3. Fire extinguisher is kept in the laboratory. 4. Preventive maintenance is carried out periodically. 5. Servicing is carried out as per requirement. 6. Periodical cleaning is done. 7. Equipment is kept in the respective storage area. 8. Red tag area is maintained. 9. Technical staff have been trained and certified in the use of fire extinguishers and basic first aid procedures to ensure effective response during emergencies.
2	Multiband Communication Laboratory	1. Safety precaution rules are displayed. 2. First aid box is available in the laboratory. 3. Fire extinguisher is kept in the laboratory. 4. Preventive maintenance is carried out periodically. 5. Servicing is carried out as per requirement. 6. Periodical cleaning is done. 7. Equipment is kept in the respective storage area. 8. Red tag area is maintained. 9. Technical staff have been trained and certified in the use of fire extinguishers and basic first aid procedures to ensure effective response during emergencies.
3	Processor and System Design Laboratory	1. Safety precaution rules are displayed. 2. First aid box is available in the laboratory. 3. Fire extinguisher is kept in the laboratory. 4. Preventive maintenance is carried out periodically. 5. Servicing is carried out as per requirement. 6. Periodical cleaning is done. 7. Equipment is kept in the respective storage area. 8. Red tag area is maintained. 9. Technical staff have been trained and certified in the use of fire extinguishers and basic first aid procedures to ensure effective response during emergencies.
4	Digital Systems and Networks Laboratory	1. Safety precaution rules are displayed. 2. First aid box is available in the laboratory. 3. Fire extinguisher is kept in the laboratory. 4. Preventive maintenance is carried out periodically. 5. Servicing is carried out as per requirement. 6. Periodical cleaning is done. 7. Equipment is kept in the respective storage area. 8. Red tag area is maintained. 9. Technical staff have been trained and certified in the use of fire extinguishers and basic first aid procedures to ensure effective response during emergencies.
5	Project and Innovation Laboratory	1. Safety precaution rules are displayed. 2. First aid box is available in the laboratory. 3. Fire extinguisher is kept in the laboratory. 4. Preventive maintenance is carried out periodically. 5. Servicing is carried out as per requirement. 6. Periodical cleaning is done. 7. Equipment is kept in the respective storage area. 8. Red tag area is maintained. 9. Technical staff have been trained and certified in the use of fire extinguishers and basic first aid procedures to ensure effective response during emergencies.
6	Centre for Internet of Things	1. Safety precaution rules are displayed. 2. First aid box is available in the laboratory. 3. Fire extinguisher is kept in the laboratory. 4. Preventive maintenance is carried out periodically. 5. Servicing is carried out as per requirement. 6. Periodical cleaning is done. 7. Equipment is kept in the respective storage area. 8. Red tag area is maintained. 9. Technical staff have been trained and certified in the use of fire extinguishers and basic first aid procedures to ensure effective response during emergencies.
7	Centre for Smart Antenna Systems and Measurements	1. Safety precaution rules are displayed. 2. First aid box is available in the laboratory. 3. Fire extinguisher is kept in the laboratory. 4. Preventive maintenance is carried out periodically. 5. Servicing is carried out as per requirement. 6. Periodical cleaning is done. 7. Equipment is kept in the respective storage area. 8. Red tag area is maintained. 9. Technical staff have been trained and certified in the use of fire extinguishers and basic first aid procedures to ensure effective response during emergencies.
8	Centre for PCB Design	1. Safety precaution rules are displayed. 2. First aid box is available in the laboratory. 3. Fire extinguisher is kept in the laboratory. 4. Preventive maintenance is carried out periodically. 5. Servicing is carried out as per requirement. 6. Periodical cleaning is done. 7. Equipment is kept in the respective storage area. 8. Red tag area is maintained. 9. Used chemicals are disposed safely. 10. Technical staff have been trained and certified in the use of fire extinguishers and basic first aid procedures to ensure effective response during emergencies.

## D3. Project Laboratory/Research Laboratory

## **CENTRE FOR SMART ANTENNA SYSTEMS AND MEASUREMENTS**

### **(A Premier Research Facility for RF and Microwave Engineering)**

The Centre for Smart Antenna Systems and Measurements stands as a differentiated research hub, being one of the few institutions in the region equipped with a full-scale Anechoic Chamber and a 20 GHz Vector Network Analyzer (ShockLine MS46122B) Sponsored by AICTE under MODROBS scheme. This infrastructure enables precision characterization of antennas, RF devices, and material absorption coefficients up to millimetre-wave frequencies, directly supporting 5G/6G research, defence applications, and satellite communication systems.

#### **Strategic Industry Partnerships:**

- **Tessolve Semiconductor Private Limited** (MoU: 2024–2025) – Joint R&D in RF characterization, VNA-based measurement protocols, and student internships in semiconductor test engineering.
- **Caliber Interconnect Solutions Pvt. Ltd.** (MoU: 2022–2025) – Collaborative development of high-speed PCB and antenna interconnect solutions for industrial applications.
- **Mobitech Wireless Solution Pvt. Ltd.** (MoU: 2024–2027) – Consultancy-driven antenna design and wireless system optimization.
- **Entuple Technologies** (MoU: 2025–2027) – Project work, Research, software testing and consultancy activities
- **Universiti Teknologi Brunei** (MoU: under progress) - Consultancy-driven antenna design, research, collaborative academic activities

#### **Research & Development Outcomes:**

- Faculty members and scholars actively engaged in Microstrip patch antenna, reconfigurable antenna, MIMO antenna, metamaterial-based miniaturized antennas, and phased array systems, frequency selective surfaces and observers using CST Studio Suite and MATLAB Phased Array Toolbox.
- Consultancy services offered for industry-grade antenna characterization and RF system validation.
- Skill development programs conducted on CST Microwave Studio and MATLAB Antenna Toolbox for UG/PG students, research scholars and working professionals.

## **CENTRE FOR INTERNET OF THINGS (IoT)**

### **(Industry-Aligned CoE for IoT and Smart Systems)**

The Centre for Internet of Things functions as an emerging Centre of Excellence, positioning it as a potential Industry-recognized IoT Hub. The laboratory is equipped with industry-grade development ecosystems including TI SensorTag (CC2650), CC26X2R1 LaunchPad, CC1200 Sub-1 GHz kits, Dragino LoRa Shield, ETS-IoT-WDM (ESP32 + LoRa), and a Thermal Imaging Camera for advanced sensing applications.

#### **Multi-Tiered Industry Engagement:**

- **Future Skills – NASSCOM (2024–2025)** – National-level student certification in emerging technologies, bridging the industry-academia skill gap.
- **Enthu Technology Solutions India Pvt. Ltd. (2023–2026)** – Co-development of IoT and embedded solutions for smart agriculture and healthcare.
- **Zeekers Technology solutions Pvt. Ltd.** (MoU: 2025–2027) - Project work, Research, software testing and consultancy activities
- **IEP Solutions** (MoU: 2024–2027) - Skill Training, Embedded System Design with IoT protocol, AI based Algorithms for Signal and Image Processing, Industrial Automation, Mobile App and Web Development and supporting services
- **MachDatum Private Limited** (MoU: 2022–2027) – Industrial visit, training, consultancy, internship activities
- **Pi-Square Technologies Pvt. Ltd.** (MoU: 2026–2027) – training, internship and placement on QNX Software Development Platform
- **American Megatrends International India Pvt. Ltd.** (MoU: 2022–2025) – training, internship and placement in Dynamic Firmware Engineering
- **Silicon Labs** (MoU: 2025–2027) - Industrial visit, training, consultancy, internship activities

## **CENTRE FOR PCB DESIGN**

### **(End-to-End PCB Fabrication and Industrial Consultancy Hub)**

The Centre for PCB Design is a fully functional PCB fabrication laboratory offering complete in-house manufacturing capability for single and double-sided printed circuit boards. The facility houses ten specialized machines including Cutting Machine, Etching Machine, Screen Printing Table, Roller Tinning Machine, Oven, Drilling Machine, and Brushing Machine, supported by industry-standard design suites—Altium, Eagle, and Kicad.

#### **Industry-Linked Competency Development:**

- **Caliber Interconnect Solutions Pvt. Ltd. (MoU: 2022–2025)** – Direct industry partner for high-speed PCB design, signal integrity analysis, and industrial consultancy.
- **Silicon Systems (MoU: 2022–2025)** – Embedded hardware and PCB layout mentorship.
- **Tessolve Semiconductor (MoU: 2024–2025)** – Semiconductor test board design and fabrication.
- **Consultancy Activities** - RS Power Systems, Fullfil Systems, Salzer Electronics, Lumens Systems, INNOMEKTRONIC, Pioneer Circuits

**Academic & Skilling Initiatives:**

- One-credit course on **PCB Design using Altium**
- Value-added course on **PCB Manufacturing Processes**
- Two-week internship on **PCB Design and Fabrication**
- On-demand industry-sponsored training programs

**CENTRE FOR DRONES AND UAV TECHNOLOGY (ARC)****(Aeromodelling, Autonomy, and Next-Generation Aerial Systems)**

The Centre for Drones and UAV Technology (Aeronautics Research Cell) is a specialized facility for aeromodelling, unmanned aerial vehicle development, and competition-grade robotics. The Centre provides end-to-end hands-on training in RC plane scratch building, autopilot integration, flight mechanics, and wireless telemetry.

**Premier Industry Linkages:**

- **Ozotec Automobile Private Ltd. (2024–2027)** – Electric vehicle battery systems and drone payload optimization.
- **Roots Industries India Limited (2022–2027)** – Electronics manufacturing and embedded control systems.

**National & International Competitions:**

Students are systematically trained and mentored for prestigious technical events including Boeing Aeromodelling Competition, IDRL (Indian Drone Racing League), Nitro Racing, SAE International Aeromodelling, Battle Bots

**Community Outreach & Social Impact:**

The Centre has conducted hands-on training sessions on "Implementation of Mini Drones" in multiple schools across Coimbatore, fostering STEM education at the grassroots level.

**PROJECT AND INNOVATION LABORATORY****(Rapid Prototyping, Product Realization, and Startup Incubation)**

The Project and Innovation Laboratory serves as the central prototyping engine for the institute, enabling students and faculty to transform conceptual ideas into functional products. The laboratory is equipped with a Semi-automated PCB and Antenna Design Machine featuring indigenous PCB warpage compensation technology, Digital Storage Oscilloscopes (Siglent SDS1102CML+), Arbitrary Function Generators (Siglent SDG2122X), Universal IC Programming Kits, and an ecosystem of development boards including Arduino, Raspberry Pi, and Node MCU.

**Startup Incubation Success:**

- **Loop Tech Corporation** – An embedded systems and IoT startup incubated within the laboratory, currently developing commercial solutions with mentorship.
- **XDOSO Tech Labs** – creating innovative, life-saving solutions that address some of the most pressing challenges across sectors like healthcare, agriculture, and technology

**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)	900	45	47	145	148
2024-25(CAYm1)	1140	57	50	142	120

2025-26(CAY)	1500	75	52	151	96
--------------	------	----	----	-----	----

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

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

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Infrastructure Built-Up	4370000	6341758	145046000	135497009.5	25719200	73648776.17	42200000	41221950
Library	10772500	3370952	6092025	3847181.67	3789275	1345154.01	2850000	2795920
Laboratory equipment	36850750	18509719	40925574	30857159.96	65422968	49295771.88	9700000	9575024
Teaching and non-teaching staff salary	388000000	278349728	338000000	311401430	380431625	318626309.4	260000000	253191880
Outreach Programs	70000000	75717357	3700000	2430712.93	7095500	3168571.17	2000000	1800000
R&D	27102400	6194353	24581700	12587452.16	72995500	261988.30	12000000	12194000
Training, Placement and Industry linkage	16716000	17298031	29137880	20204583.41	10381000	23851629.91	26000000	26429900
SDGs	38007000	15050992	15499500	9400597.21	2201100	3902638	1000000	1013000
Entrepreneurship	4000000	2325503	5222500	4919948.26	300000	149109	1000000	900000
Others, specify	290905850	229677531	76710090	77573330.73	76726332	74079979.95	138000000	137026786
<b>Total</b>	<b>886724500</b>	<b>652835924</b>	<b>684915269</b>	<b>608719405.83</b>	<b>645062500</b>	<b>548329927.79</b>	<b>494750000</b>	<b>486148460</b>

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

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

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Laboratory equipment	5615740	1755074	2342049	2247288	3165000	2412760	6630000	6224403
Software	1500000	1490486	2626000	2324600	885000	855500	700000	631300
SDGs	300000	532578	150000	181367	260000	122136	50000	30000
Support for faculty development	400000	433433	375000	222213	150000	35537	300000	100000

R & D	1565600	1276197	2592200	2317450	1900000	1718400	1200000	1107400
Industrial Training, Industry expert, Internship	300000	419531	150000	404683	535000	445764	325000	236718
Miscellaneous Expenses*	2762250	1907884	286000	223881	928605	1511814	697180	623823
<b>Total</b>	<b>12443590</b>	<b>7815183</b>	<b>8521249</b>	<b>7921482</b>	<b>7823605</b>	<b>7101911</b>	<b>9902180</b>	<b>8953644</b>