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: 11340	**Date of Submission**: 15-12-2025

PART A- Profile of the Institute

A1.Name of the Institute: St. ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY	
Year of Establishment : 2001-2001	Location of the Institute: Chirala
A2. Institute Address:NAYUNIPALLI(V),VETAPALEM(M) PRAKSASAM DISTRICT	
City:--Select--	State:Andhra Pradesh
Pin Code:523187	Website:www.sacet.ac.in
Email:sacetchirala@gmail.com	Phone No(with STD Code):08594-247500
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Jawaharlal Nehru Technological University Kakinada	City: east Godavari
State : Andhra Pradesh	Pin Code: 533003
A4. Type of the Institution: Autonomous CAY(2022-23)	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **9**
- No. of PG programs: **8**

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	Computer Application	PG	Master in Computer Applications	2006	--	Computer Application
2	Engineering & Technology	Diploma	Civil Engineering	2013	--	Civil Engineering
3	Engineering & Technology	UG	Civil Engineering	2011	--	Civil Engineering
4	Engineering & Technology	Diploma	Computer Engineering	2022	--	Computer Engineering
5	Engineering & Technology	UG	Computer Science and Engineering	2001	--	Computer Science and Engineering
6	Engineering & Technology	PG	Computer Science and Engineering	2008	--	Computer Science and Engineering
7	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2020	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
8	Engineering & Technology	PG	Computer Science and Engineering (Artificial Intelligence and Machine Learning)	2025	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)

9	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2021	--	Computer Science and Engineering (Cyber Security)
10	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2021	--	Computer Science and Engineering (Data Science)
11	Engineering & Technology	UG	Computer Science and Engineering (Internet of Things)	2020	--	Computer Science and Engineering (Internet of Things)
12	Engineering & Technology	UG	Electrical & Electronics Engineering	2002	--	Electrical and Electronics Engineering
13	Engineering & Technology	Diploma	Electrical and Electronics Engineering	2009	--	Electrical and Electronics Engineering
14	Engineering & Technology	Diploma	Electronics & Communication Engineering	2009	--	Electronics and Communication Engineering
15	Engineering & Technology	UG	Electronics & Communication Engineering	2001	--	Electronics and Communication Engineering
16	Engineering & Technology	PG	Embedded Systems	2013	--	Electronics and Communication Engineering
17	Engineering & Technology	Diploma	Mechanical Engineering	2009	--	Mechanical Engineering
18	Engineering & Technology	UG	Mechanical Engineering	2004	--	Mechanical Engineering
19	Engineering & Technology	PG	Power Systems	2013	--	Electrical and Electronics Engineering
20	Engineering & Technology	PG	Thermal Engineering	2014	--	Mechanical Engineering
21	Engineering & Technology	PG	Transportation Engineering	2015	--	Civil Engineering
22	Management	PG	Master of Business Administration	2006	--	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
Electronics and Communication Engineering	No	Electronics & Communication Engineering	UG
Computer Science and Engineering	Yes	Computer Science and Engineering	UG
Computer Science and Engineering (Internet of Things)	Yes	Computer Science and Engineering (Internet of Things)	UG
Computer Science and Engineering (Artificial Intelligence and Machine Learning)	Yes	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	UG

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

No Record

PART-B: Program information

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

Table No. B1: Program details.
A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRA DURATIC
1	Electronics & Communication Engineering	UG	2001 / --	60	Yes	2013	240	2013	F.No. South-Central/1-1388308374/2013/EOA Date: 06-Apr-2013	Granted accreditation for 3 years for the period (specify period)	2023	2026	4	4

Sanctioned Intake for Last Five Years for the Embedded Systems	
Academic Year	**Sanctioned Intake**
2025-26	240
2024-25	240
2023-24	240
2022-23	240
2021-22	240
2020-21	240

List of the Allied Departments/Cluster and Programs:

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

A. Name of the HoD :	Dr. D RAJENDRA PRASAD
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	240	240	240	240	240	240
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	238	240	238	240	192	240
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	26	24	26	24	40	24
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	24	24	24	24	24	17	17
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	264	288	288	288	288	249	281

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	24	110.00
2024-25 (CAYm1)	240	238	24	109.17
2023-24 (CAYm2)	240	240	24	110.00

Average [(ER1 + ER2 + ER3) / 3] = 109.72≡ 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).	288.00	280.00	281.00
B=No. of students who graduated from the program in the stipulated course duration	218.00	208.00	203.00
Success Rate (SR)= (B/A) * 100	75.69	74.29	72.24

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 74.07

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)	7.25	7.40	7.62
Y=Total no. of successful students	205.00	210.00	230.00
Z=Total no. of students appeared in the examination	260.00	260.00	264.00
API [X*(Y/Z)]	5.72	5.98	6.64

Average API[(AP1+AP2+AP3)/3] : 6.11

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)	7.60	7.92	7.37
Y=Total no. of successful students	207.00	235.00	239.00
Z=Total no. of students appeared in the examination	234.00	256.00	249.00
API [X * (Y/Z)]	6.72	7.27	7.07

Average API [(AP1 + AP2 + AP3)/3] : 7.02

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)	8.12	7.73	7.48
Y=Total no. of successful students	211.00	228.00	209.00
Z=Total no. of students appeared in the examination	235.00	239.00	214.00
API [X*(Y/Z)]:	7.29	7.37	7.31

Average API [(AP1 + AP2 + AP3)/3] : 7.32

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	264.00	280.00	264.00
X=No. of students placed	139.00	151.00	169.00
Y=No. of students admitted to higher studies	15.00	12.00	11.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	58.33	58.21	68.18

Average Placement Index = (P_1 + P_2 + P_3)/3: 61.57 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. D RAJENDRA PRASAD	XXXXXXX65Q	Ph.D	Jawaharlal Nehru Technological University Kakinada	Wireless Communications and Networking	02/07/2012	13.5	Associate Professor	Professor	07/09/2017	Regular	Yes		Yes
2	Dr.K.JAGADEESH BABU	XXXXXXX68A	Ph.D	JNTUH	Antennas	19/11/2001	24	Assistant Professor	Professor	01/01/2009	Regular	Yes		No
3	Dr.A.MURALI VARA PRASAD	XXXXXXX46C	Ph.D	IIT-Bombay	Piezo Electric	18/07/2014	11.4	Professor	Professor		Regular	Yes		No
4	Dr.B.KIRAN KUMAR	XXXXXXX44N	Ph.D	AU	Antennas	01/07/2015	10.5	Associate Professor	Professor	29/12/2015	Regular	Yes		No

5	Dr. GABBETA RAJAIAH	XXXXXXX67M	Ph.D	MGKVP	Image Processing	17/06/2019	6.5	Professor	Professor		Regular	Yes		No
6	Dr. P. SRINIVASA RAO	XXXXXXX91H	Ph.D	Jawaharlal Nehru Technological University Kakinada	Antennas	01/06/2010	15.6	Assistant Professor	Associate Professor	01/01/2021	Regular	Yes		No
7	Dr. R.VENKATA SIVA HARISH	XXXXXXX10A	Ph.D	AU	DI&VP	01/07/2015	10.5	Assistant Professor	Associate Professor	01/06/2022	Regular	Yes		No
8	Dr. D.V.N.SUKANYA	XXXXXXX91H	Ph.D	Jawaharlal Nehru Technological University Kakinada	DIP	12/06/2019	6.5	Assistant Professor	Associate Professor	01/06/2022	Regular	Yes		No
9	Dr.P. BHASKARA RAO	XXXXXXX51J	Ph.D	JNTUA	Antennas	29/08/2020	5.3	Assistant Professor	Associate Professor	03/11/2022	Regular	Yes		No
10	Dr.G. SRINIVASARAO	XXXXXXX80H	Ph.D	KLU	Image Processing	25/11/2019	6	Assistant Professor	Associate Professor	01/07/2023	Regular	Yes		No
11	Dr. J. KAVITHA	XXXXXXX76Q	Ph.D	AU	MEMS SENSORS	05/06/2013	12.6	Assistant Professor	Associate Professor	06/10/2025	Regular	Yes		No
12	Mr . N.V.RAGHAVA SWAMY	XXXXXXX90P	M.Tech	Sathyabama	VLSI Design	22/11/2019	6	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Mr. P ANIL KUMAR	XXXXXXX73P	MS	Hertfordshire-UK	Information Systems	14/10/2009	16.1	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Mr. S.SAI SANDEEP	XXXXXXX60R	M.Tech	JNTUH	VLSI	01/12/2008	17	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Mrs. T. SIVA LEELA	XXXXXXX17B	M.Tech	Jawaharlal Nehru Technological University Kakinada	DECS	15/12/2012	13	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Mr. P.V.L. SIVA PRASAD	XXXXXXX46B	M.Tech	ANU	CSP	14/06/2017	8.5	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Mr.G.KOTESWARA RAO	XXXXXXX34G	M.Tech	Jawaharlal Nehru Technological University Kakinada	DIP	01/08/2022	3.4	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Mr.PARI KUMAR	XXXXXXX79G	M.Tech	Jawaharlal Nehru Technological University Kakinada	VLSI&ES	18/10/2021	4.1	Assistant Professor	Assistant Professor		Regular	Yes		No

19	Mr. S. RAVINDRA	XXXXXXX74G	M.Tech	Jawaharlal Nehru Technological University Kakinada	DECS	29/08/2022	3.3	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Mr.K.RAMESHBABU	XXXXXXX80F	M.Tech	Jawaharlal Nehru Technological University Kakinada	VLSI & ES	28/12/2020	4.11	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Mrs K. LAKSHMI PRASANNA	XXXXXXX06A	M.Tech	AU	CS	29/08/2022	3.3	Assistant Professor	Assistant Professor		Regular	Yes		No
22	Mr. G SUNIL DAYAKAR	XXXXXXX14E	M.Tech	Jawaharlal Nehru Technological University Kakinada	DECS	09/01/2023	2.11	Assistant Professor	Assistant Professor		Regular	Yes		No
23	Mr. K SURENDRA BABU	XXXXXXX27F	M.Tech	Jawaharlal Nehru Technological University Kakinada	DECS	01/10/2016	9.2	Assistant Professor	Assistant Professor		Regular	Yes		No
24	Mrs. N.SYAMALA	XXXXXXX91J	M.Tech	ANU	CESP	30/08/2018	7.3	Assistant Professor	Assistant Professor		Regular	Yes		No
25	Mr.P CHINNA BABU	XXXXXXX23H	M.Tech	ANU	CESP	11/11/2019	6	Assistant Professor	Assistant Professor		Regular	Yes		No
26	Mrs.K.ANUSHA	XXXXXXX97K	M.Tech	ANU	CESP	10/02/2020	5.9	Assistant Professor	Assistant Professor		Regular	Yes		No
27	Mrs.M.USHA RANI	XXXXXXX79L	M.Tech	Jawaharlal Nehru Technological University Kakinada	ES	29/08/2020	5.3	Assistant Professor	Assistant Professor		Regular	Yes		No
28	Mrs.T.GOURI KUMARI	XXXXXXX94F	M.Tech	Jawaharlal Nehru Technological University Kakinada	ES	29/08/2020	5.3	Assistant Professor	Assistant Professor		Regular	Yes		No
29	Mr.G.SABARINATH	XXXXXXX72P	M.Tech	Jawaharlal Nehru Technological University Kakinada	ES	02/08/2021	4.4	Assistant Professor	Assistant Professor		Regular	Yes		No

30	Mrs.T.SUDHA RANI	XXXXXXX05Q	M.Tech	Jawaharlal Nehru Technological University Kakinada	DECS	25/04/2022	3.7	Assistant Professor	Assistant Professor		Regular	Yes		No
31	Mrs. P.CHANDRIKA	XXXXXXX24K	M.Tech	Jawaharlal Nehru Technological University Kakinada	VLSI&ES	01/08/2022	3.4	Assistant Professor	Assistant Professor		Regular	Yes		No
32	Mrs. BHANUSREE CHALLA	XXXXXXX73M	M.Tech	Jawaharlal Nehru Technological University Kakinada	VLSI & ES	01/08/2014	11.4	Assistant Professor	Assistant Professor		Regular	Yes		No
33	Mrs. K.VARA LAKSHMI	XXXXXXX73G	M.Tech	Jawaharlal Nehru Technological University Kakinada	DECS	09/02/2015	10.10	Assistant Professor	Assistant Professor		Regular	Yes		No
34	Mrs. P.SUSHMA	XXXXXXX92B	M.Tech	Jawaharlal Nehru Technological University Kakinada	VLSI & ES	01/12/2014	11	Assistant Professor	Assistant Professor		Regular	Yes		No
35	Mr. T.KARTHIK	XXXXXXX89D	M.Tech	Jawaharlal Nehru Technological University Kakinada	DECS	01/10/2015	10.2	Assistant Professor	Assistant Professor		Regular	Yes		No
36	Ms. MERCY KALINTHA	XXXXXXX94G	M.Tech	Jawaharlal Nehru Technological University Kakinada	VLSI & ES	08/06/2017	8.6	Assistant Professor	Assistant Professor		Regular	Yes		No
37	Mr.J.VENKATESWARAO	XXXXXXX23L	M.Tech	Jawaharlal Nehru Technological University Kakinada	ES	29/08/2020	5.3	Assistant Professor	Assistant Professor		Regular	Yes		No
38	Mr. B. MOHAN RAO	XXXXXXX89G	M.Tech	ANU	CESP	03/07/2023	2.5	Assistant Professor	Assistant Professor		Regular	Yes		No
39	Mr. D. ANIL KUMAR	XXXXXXX32E	M.Tech	JNTUH	DECS	19/07/2023	2.4	Assistant Professor	Assistant Professor		Regular	Yes		No

40	Mrs. P.PRANITHA	XXXXXXX33A	M.Tech	Jawaharlal Nehru Technological University Kakinada	ES	01/06/2024	1.6	Assistant Professor	Assistant Professor		Regular	Yes		No
41	Mr. Y. JHON VARA KUMAR	XXXXXXX03R	M.Tech	JNTUH	VLSI & ES	01/08/2024	1.4	Assistant Professor	Assistant Professor		Regular	Yes		No
42	Mrs. G. MARY PRAKASH KUMARI	XXXXXXX96L	M.Tech	Jawaharlal Nehru Technological University Kakinada	ES	23/06/2025	0.5	Assistant Professor	Assistant Professor		Regular	Yes		No
43	Y. SWARNALATHA	XXXXXXX05R	M.Tech	Jawaharlal Nehru Technological University Kakinada	ES	07/07/2025	0.5	Assistant Professor	Assistant Professor		Regular	Yes		No
44	Mrs.P. JWALITHA	XXXXXXX71R	M.Tech	AU	CS	07/07/2025	0.5	Assistant Professor	Assistant Professor		Regular	Yes		No
45	Mr.CH.ELISHA BABU	XXXXXXX51G	M.Tech	Jawaharlal Nehru Technological University Kakinada	DIP	02/08/2025	0.4	Assistant Professor	Assistant Professor		Regular	Yes		No
46	Mrs. Y. MADHURI	XXXXXXX58K	M.Tech	Jawaharlal Nehru Technological University Kakinada	ES	02/08/2025	0.4	Assistant Professor	Assistant Professor		Regular	Yes		No
47	Mrs. U.NALINI	XXXXXXX13D	M.Tech	ANU	CSP	12/09/2009	15.10	Assistant Professor	Assistant Professor		Regular	No	10/07/2025	No
48	Mrs.S.SHAFEENA BEGUM	XXXXXXX46H	M.Tech	Jawaharlal Nehru Technological University Kakinada	VLSI & ES	23/08/2021	3.11	Assistant Professor	Assistant Professor		Regular	No	31/07/2025	No
49	Mr. S. RAJASEKHAR REDDY	XXXXXXX82C	M.Tech	Jawaharlal Nehru Technological University Kakinada	ES	01/06/2024	1.3	Assistant Professor	Assistant Professor		Regular	No	27/09/2025	No
50	Mr.G.CHANDRASEKHAR	XXXXXXX69G	M.Tech	Jawaharlal Nehru Technological University Kakinada	ES	10/10/2022	2.6	Assistant Professor	Assistant Professor		Regular	No	30/04/2025	No

51	Mrs.B.WINELLA	XXXXXXX41D	M.Tech	Jawaharlal Nehru Technological University Kakinada	ES	21/10/2022	2.6	Assistant Professor	Assistant Professor		Regular	No	30/04/2025	No
52	Mr. U.JAYARAM	XXXXXXX24C	M.Tech	Anna University	Applied Electronics	05/06/2013	11.10	Assistant Professor	Assistant Professor		Regular	No	30/04/2025	No
53	Dr. S. VENKATESAN	XXXXXXX90H	Ph.D	Sathyabama University	ECE	01/08/2023	1.8	Associate Professor	Associate Professor		Regular	No	30/04/2025	No
54	Mr. V. SRINIVASULU MUNGARA	XXXXXXX50M	M.Tech	Jawaharlal Nehru Technological University Kakinada	DECS	02/12/2016	8.6	Assistant Professor	Assistant Professor		Regular	No	30/06/2025	No
55	Mr.M. PRAMOD	XXXXXXX19B	M.Tech	ANU	CSP	14/03/2022	3.3	Assistant Professor	Assistant Professor		Regular	No	30/06/2025	No
56	Mrs. P BALA SARSWATHI	XXXXXXX49J	M.Tech	JNTUA	DSCE	01/06/2012	13.1	Assistant Professor	Assistant Professor		Regular	No	30/06/2025	No
57	Dr. M.RATNABABU	XXXXXXX78D	Ph.D	IIT-Bombay	CSP	01/06/2018	5.11	Professor	Professor		Regular	No	30/04/2024	No
58	Ms. D. HEMALATHA	XXXXXXX13J	M.Tech	Jawaharlal Nehru Technological University Kakinada	ES	20/04/2023	1	Assistant Professor	Assistant Professor		Regular	No	30/04/2024	No
59	Mrs. G VIJAYA KUMARI	XXXXXXX04A	M.Tech	Jawaharlal Nehru Technological University Kakinada	DECS	28/02/2013	11.2	Assistant Professor	Assistant Professor		Regular	No	30/04/2024	No
60	Mrs.M.SIVA NAGALAKSHMI	XXXXXXX85D	M.Tech	Jawaharlal Nehru Technological University Kakinada	ES	29/08/2020	3.8	Assistant Professor	Assistant Professor		Regular	No	27/05/2024	No
61	Mr. K.SWAMY	XXXXXXX27M	M.Tech	NIT , Tiruchurapally	CS	02/01/2023	0.6	Assistant Professor	Assistant Professor		Regular	No	07/07/2023	No
62	Mr. D.SRINIVASULU	XXXXXXX73D	M.Tech	Sathyabama	VLSI	10/12/2005	18.1	Assistant Professor	Assistant Professor		Regular	No	29/01/2024	No
63	Dr. A. VINOTH	XXXXXXX64J	Ph.D	Bharath University	ECE	01/08/2023	1.8	Associate Professor	Associate Professor		Regular	No	30/04/2025	No
64	SK. MUNTAZ	XXXXXXX75N	M.Tech	Jawaharlal Nehru Technological University Kakinada	ES	03/07/2023	2.5	Assistant Professor	Assistant Professor		Regular	Yes		No

65	K. ANITHA	XXXXXXX62P	M.Tech	Jawaharlal Nehru Technological University Kakinada	ES	03/07/2023	2.5	Assistant Professor	Assistant Professor		Regular	Yes		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	264	264	264
UG1.C	264	264	264
UG1.D	264	264	264
UG1: Electronics & Communication Engineering	**792**	**792**	**792**
PG1.A	24	24	24
PG1.B	24	24	24
PG1: Embedded Systems	**48**	**48**	**48**
DS=Total no. of students in all UG and PG programs in the Department	840	840	840
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	**S1=** 840	**S2=** 840	**S3=** 840
DF=Total no. of faculty members in the Department	48	54	55
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	**F1=** 48	**F2=** 54	**F3=** 55
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	0	0
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 17.50**	**SFR2= 15.56**	**SFR3= 15.27**

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
Average SFR for 3 years	**SFR= 16.11**		

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)	11	37	41.00	15.73
2024-25(CAYm1)	12	42	41.00	17.56
2023-24(CAYm2)	13	42	41.00	18.17

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	4.00	5.00	9.00	5.00	28.00	38.00
2024-25	4.00	5.00	9.00	7.00	28.00	42.00
2023-24	4.00	6.00	9.00	7.00	28.00	42.00
Average	RF1=4.00	AF1=5.33	RF2=9.00	AF2=6.33	RF2=28.00	AF2=40.67

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)

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr.S.V. Naresh	Manager & Lead Architect	Naresh Technologies & Consultancy Services	Advancements Bio Medical Image Processing using AI	57.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. Prabhu Chandhar	Director	Chandhar Research Labs Private Limited, Chennai	Advanced Wireless Communications	54.00

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	33	22	25
2	No. of peer reviewed conference papers published	13	19	11
3	No. of books/book chapters published	2	2	2

C7. Sponsored Research Project

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

(CAYm1)

(CAYm2)

(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.Jagadeesh Babu	Dr.B.Kiran Kumar	ECE	Invasive and Non-invasive Methtrak of Measuring Glucose Concentration in Blood Samples Using RF and Microwave Measurement Techniques	AICTE	3 Years	621349.00
						Amount received (Rs.):621349.00

Total Amount (Lacs) Received for the Past 3 Years: 621349.00

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)

(CAYm3)

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

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.K. Jagadeesh Babu	A novel gold and SiO2 material planar 5-element high HPBW end-fire antenna for GHz applications	6 Months	0.05	0.05	SCI Journal
Dr.K. Jagadeesh Babu	Glucose concentration evaluation in blood samples using novel microwave antenna sensor	6 Months	0.05	0.05	SCI Journal
Dr.K. Jagadeesh Babu	ISM band CPW fed antenna for detection of skin cancer	6 Months	0.05	0.05	SCI Journal
Dr.B. Kiran Kumar	novel trident shaped microstrip antenna sensor for glucose detection in human blood	6 Months	0.05	0.05	SCI Journal
Dr.B. Kiran Kumar	Parameters Optimization of Compact UWB-MIMO Antenna with WLAN Band Rejection for Short Communication	6 Months	0.05	0.05	SCI Journal
Dr.B. Kiran Kumar	A defected substrate 4-element MIMO antenna with higher diversity	6 Months	0.05	0.05	SCI Journal
Dr.B. Kiran Kumar	Four-element equilateral triangular-shaped MIMO antenna	6 Months	0.05	0.05	SCI Journal
Dr.B. Kiran Kumar	Wearable Cardiac ECG Signal Recording Device	6 Months	0.05	0.05	Indian Patent Published
Dr.B. Kiran Kumar	Breath Analyzer	6 Months	0.05	0.05	UK Design Patent Published
Dr.B. Kiran Kumar	An IOT-Enabled High-Gain Antenna System for Enhanced	6 Months	0.05	0.05	Indian patent published
Dr.B. Kiran Kumar	System for Decentralized IOT Ecosystem Enabling Secure and Scalable	6 Months	0.05	0.05	Indian patent published
Dr. D. Rajendra Prasad	A Novel Energy Aware Cluster Head Selection Algorithm for Wireless Sensor Networks	6 Months	0.05	0.05	SCOPUS Journal
Dr. D. Rajendra Prasad	Convolutional Neural Network-Based Attack Detection	6 Months	0.05	0.05	SCOPUS Journal
Dr. D. Rajendra Prasad	Implementation and Performance Comparison of Novel Optimization	6 Months	0.05	0.05	SCOPUS Journal
Dr. D. Rajendra Prasad	Performance Analysis of Face Forgery Recognition and Classification	6 Months	0.05	0.05	SCOPUS Journal
Dr. D. Rajendra Prasad	A Low-Profile Fan Structured Antenna for Millimeter Wave Applications	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE
Dr. D. Rajendra Prasad	A Compact Fan Shaped Antenna for Wearable Applications	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE
Dr. D. Rajendra Prasad	IOT Based Electrical Vehicle Battery Management System with Charge	6 Months	0.04	0.04	UGC Journal
Dr. D. Rajendra Prasad	Energy efficient clustering method cluster head selection in wireless sensor networks	6 Months	0.04	0.04	UGC Journal
Dr. P. Srinivasa Rao	Flexible And Wearable Antenna for Biomedical Applications	6 Months	0.04	0.04	UGC Journal
Dr. P. Srinivasa Rao	Machine learning-assisted design and optimization of a flexible dual band	6 Months	0.05	0.05	SCI Journal
Dr. RVS Harish	Artificial Intelligence-Powered Image Processing Platform for Autonomous Vehicle Navigation	6 Months	0.05	0.05	Indian patent published
Dr. RVS Harish	Advancing human activity recognition with quaternion-based recurrent neural networks	6 Months	0.05	0.05	SCI Journal
Dr. RVS Harish	An Automated Face Mask Detection using Ensemble Learning Approach	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE
Dr. RVS Harish	Smart Manhole Surveillance System Using IOT	6 Months	0.04	0.04	UGC Journal

Dr. Bhaskara Rao Perli	Serpent-Configured Quad-Port MIMO Antenna with Dual-Band Operation	6 Months	0.05	0.05	SCI Journal
Dr. Bhaskara Rao Perli	Flexible four-port MIMO antenna for 5G NR-FR2 tri-band mmWave application with SAR analysis	6 Months	0.05	0.05	SCI Journal
Dr. Bhaskara Rao Perli	Design of Multiband microstrip patch antenna for 5G applications using AMC	6 Months	0.04	0.04	UGC Journal
Dr. Bhaskara Rao Perli	CHARACTERISTIC MODES ANALYSIS OF CPW-FED UWB MONOPOLE ANTENNA FOR SHORT	6 Months	0.05	0.05	SCOPUS Journal
Dr. G. Srinivasarao	Designing of Neuromorphic VLSI Circuits based on Biological Neural Networks to Improve the Energy	6 Months	0.05	0.05	SCOPUS Journal
Dr. G. Srinivasarao	Brain tumour detection of MRI images using elastic net regression	6 Months	0.05	0.05	SCOPUS Journal
Dr. G. Srinivasarao	IOT Based Automatic Vehicle Accident Detection and Rescue System	6 Months	0.04	0.04	UGC Journal
Dr.DVN Sukanya	Human Activity Recognition through Ensemble Learning of Multiple Convolutional Neural Networks	6 Months	0.04	0.04	UGC Journal
P. Chinna Babu	Brain Sense Controlled Wireless Robot	6 Months	0.03	0.03	NATIONAL CONFERENCE
P. Anil Kumar	ESP 32 - Powered Development Board (A modem upgrade to Arduino uno for improved performance &	6 Months	0.03	0.03	NATIONAL CONFERENCE
S. Ravindra	Smart Glasses for visually impaired	6 Months	0.03	0.03	NATIONAL CONFERENCE
K. Surendra Babu	Voice assistive smart stick for visually impaired using GSP, GSM and Arduino with live monitoring	6 Months	0.03	0.03	NATIONAL CONFERENCE
T. Gowri Kumari	IOT Fingerprint based three step authentications for smart door lock disc	6 Months	0.03	0.03	NATIONAL CONFERENCE
Y. John Varakumar	Future stick hybrid Fuel station ESP-32 controlled IOT dispenser for EV's and petrol vehicles	6 Months	0.03	0.03	NATIONAL CONFERENCE
G. Koteswara Rao	Long Cancer diagnosis of CT scan image using CNN based model	6 Months	0.03	0.03	NATIONAL CONFERENCE
N V Raghava Swamy	A Novel Implementation of Advanced Micro-Controller	6 Months	0.03	0.03	NATIONAL CONFERENCE
N. V. Raghavaswamy	Enhancing Human Brain Neural Activity through Sanathan Vedic Chanting with	6 Months	0.03	0.03	NATIONAL CONFERENCE
Dr.D.Rajendra Prasad	Interactive Tool for MIMO System Optimization in Next-Gen Networks	6 Months	0.05	0.05	Indian Patent Published
N. V. Raghavaswamy	Investigative Analysis of Alpha Brainwave Relaxation in Alert State Due to Listening of Vedic	6 Months	0.05	0.05	Indian patent published
N. V. Raghavaswamy	Relaxation apparatus with Vedic chanting	6 Months	0.05	0.05	UK Design patent published
Dr. G. Srinivasarao	Advanced Machine Learning Approaches for Early Detection of Breast Cancer	6 Months	0.05	0.05	Indian Patent Published
Dr. Bhaskara Rao Perli	Flexible Two-Element Multiple-Input and Multiple-Output (MIMO) Patch antenna for 5G	6 Months	0.05	0.05	Indian Patent Published
Dr. Bhaskara Rao Perli	Multi-Band Multiple-Input and Multiple-Output (MIMO)	6 Months	0.05	0.05	Indian Patent Published
Dr. D. Rajendra Prasad	Smart Medical Image Processing System Using Deep Learning	6 Months	0.05	0.05	Indian Patent Published
Dr. D. Rajendra Prasad	A System for VLSI Layout Optimization in Connected and Pyramid Networks	6 Months	0.05	0.05	Indian Granted patent published
Dr.Bandi Kiran Kumar	System for Decentralized IOT Ecosystem Enabling Secure and Scalable	6 Months	0.05	0.05	Indian patent published
Dr.Bandi Kiran Kumar	Wearable Cardiac ECG Signal Recording Device	6 Months	0.05	0.05	Indian patent published
Dr.Bandi Kiran Kumar	IOT Based Icu Patient Monitoring System	6 Months	0.04	0.04	UGC Journal
J. Kavitha	Analysis on sensitivity enhancement of MEMS based capacitive pressure sensor for low pressure	6 Months	0.05	0.05	SCI Journal

Dr.DVN Sukanya	Smart Wearable Device for Women Safety	6 Months	0.04	0.04	UGC Journal
Dr. D. Rajendra Prasad	INTERACTIVE TOOL FOR MIMO SYSTEM OPTIMIZATION IN NEXT-GEN NETWORKS	6 Months	0.05	0.05	Indian patent published
Dr. D. Rajendra Prasad	A Novel Multi-modality Deepfake Detection Using Cross-Model Fusion–Based Hybrid Harris Whale Depth	6 Months	0.05	0.05	SCI Journal
Dr. G. Srinivasarao	Enhancement of Underwater Images and Restoration using Deep Learning	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE
Dr.K. Jagadeesh Babu	Multiple Slotted Quad-Band Two Element Multiple Input Multiple Output	6 Months	0.05	0.05	SCI Journal
Dr. D. Rajendra Prasad	A Reliable Data Aggregation Routing Approach for Wireless Sensor Networks	6 Months	0.04	0.04	UGC Journal
Dr.P.Srinivasa Rao	A NOVEL ENERGY AWARE CLUSTER HEAD SELECTION	6 Months	0.05	0.05	SCOPUS Journal
Dr.P. Srinivasa Rao	IOT Based Automatic Vehicle Accident Detection and Rescue System	6 Months	0.04	0.04	UGC Journal
Dr.D.Rajendra Prasad	INTERACTIVE TOOL FOR MIMO SYSTEM OPTIMIZATION IN NEXT-GEN NETWORKS	6 Months	0.05	0.05	Indian patent published
Dr.K. Jagadeesh Babu	Multiple Slotted Quad-Band Two Element Multiple Input Multiple Output Antenna with Defected G	6 Months	0.05	0.05	SCI Journal
Dr.D.Rajendra Prasad	A NOVEL ENERGY AWARE CLUSTER HEAD SELECTION ALGORITHM FOR WIRELESS SENSOR NETWORKS	6 Months	0.05	0.05	SCOPUS Journal
Dr. P. Srinivasa Rao	Flexible And Wearable Antenna for Biomedical Applications	6 Months	0.04	0.04	UGC Journal
Dr. D. Rajendra Prasad	A Reliable Data Aggregation Routing Approach for Wireless Sensor Networks	6 Months	0.04	0.04	UGC Journal
Dr. D. Rajendra Prasad	IOT Based Electrical Vehicle Battery Management System with Charge Monitor and	6 Months	0.04	0.04	UGC Journal
Dr. D. Rajendra Prasad	Energy efficient clustering method cluster head selection in wireless sensor networks	6 Months	0.04	0.04	UGC Journal
			Amount received (Rs.): 3.04		

(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.D.Rajendra Prasad	Multi-modal Image Fusion Techniques Powered by Transformer-based Machine Learning Models	6 Months	0.05	0.05	Indian Patent Published
Dr.D.Rajendra Prasad	Multi-Layered Image Compression Technique for High-Efficiency Storage	6 Months	0.05	0.05	Indian Patent Published
Dr.D.Rajendra Prasad	Self-Healing IoT Network Protocols for Industrial Automation	6 Months	0.05	0.05	Indian Patent Published
Dr.D.Rajendra Prasad	IoT-Enabled Precision Agriculture Monitoring System	6 Months	0.05	0.05	Indian Patent Published
Dr.D.Rajendra Prasad	Automated Image Enhancement Using Ai-Driven Contextual Analysis	6 Months	0.05	0.05	Indian Patent Published
Dr.D.Rajendra Prasad	Efficient Data Ingestion and Processing Framework for Real-Time Big Data Analytics in The Cloud	6 Months	0.05	0.05	Indian Patent Published
Dr.D.Rajendra Prasad	Multi-Surface Text to Audio Signal Processing Device	6 Months	0.05	0.05	Indian Patent Published
Dr.D.Rajendra Prasad	Heart Beat And Electrocardiogram Signal Processing Sensor Device Ls	6 Months	0.05	0.05	Indian Patent Published
Dr.D.Rajendra Prasad	Healing Network Architectures with Integrated Ai-Based Anomaly Detection	6 Months	0.05	0.05	Indian Patent Published
Dr.B. Kiran Kumar	A Triangular-Shaped 4-Port MIMO Antenna with Circular Slots For 5g Sub-6GHz N79 Band Communication	6 Months	0.05	0.05	Indian Patent Published
Dr. RVS Harish	Biomedical Implantable Gastric Electrical Stimulator for Stomach	6 Months	0.05	0.05	Indian Patent Published
Dr. G. SrinivasarRao	Brain Cancer Cells Detection Technology Using the Fuzzy Learning Method	6 Months	0.05	0.05	Indian Patent Published
Dr.D.Rajendra Prasad	A Novel Hand Operated Manual Seeder Machine for Peanut Seeding Process in Agriculture	6 Months	0.05	0.05	Indian Patent Published
Dr.K.Jagadeesh Babu	A Compact Self Isolated UWB-MIMO Antenna with WiMAX and WLAN Band Notched Characteristics	6 Months	0.05	0.05	SCI Journal
Dr.K.Jagadeesh Babu	Rectangular patches loaded high gain antenna for tri-band applications	6 Months	0.05	0.05	SCI Journal
Dr.K.Jagadeesh Babu	A Series-Fed Conformal Antenna at 60 GHz for 6G and Beyond Applications	6 Months	0.05	0.05	SCI Journal
Dr.K.Jagadeesh Babu	Design and Analysis of UWB Antenna with Triple Band Notched Characteristic	6 Months	0.05	0.05	SCI Journal
Dr.K.Jagadeesh Babu	Design and investigation of cavity backed bowtie antenna with unidirectional radiation pattern	6 Months	0.05	0.05	SCI Journal
Dr.K.Jagadeesh Babu	Modal analysis and higher order mode suppression of a high impedance surface-based bowtie antenna	6 Months	0.05	0.05	SCI Journal
Dr.K.Jagadeesh Babu	A novel compact highly sensitive non-invasive microwave antenna sensor for blood glucose monitoring	6 Months	0.05	0.05	SCI Journal
Dr.K.Jagadeesh Babu	esign of a novel four-element Koch–Sierpinski fractal mmWave antenna for 5G applications	6 Months	0.05	0.05	SCI Journal
Dr.B. Kiran Kumar	A non-invasive blood glucose detection using a slotted microstrip antenna sensor	6 Months	0.05	0.05	SCI Journal
Dr.D.Rajendra Prasad	A Novel NASNet model with LIME Explanability for lung disease classification.	6 Months	0.05	0.05	SCI Journal
Dr.D.Rajendra Prasad	Customer Personality Analysis using Segmentation and Exploratory Data Analysis.	6 Months	0.05	0.05	SCOPUS Journal
Dr.D.Rajendra Prasad	Impact of Image Processing and deep Learning in IoT based Industrial Automation System	6 Months	0.05	0.05	SCOPUS Journal
Dr.D.Rajendra Prasad	Enhanced WSN Cloud Security Based on Double Linked Hash Blockchain Security using Prime Padding	6 Months	0.05	0.05	SCOPUS Journal
Dr.K.Jagadeesh Babu	AN ASYMMETRICAL PSI-SHAPED MULTIBAND ANTENNA FOR WIRELESS APPLICATIONS	6 Months	0.05	0.05	SCOPUS Journal
Dr. P Srinivasa Rao	TRIPLE BAND-NOTCHED UWB PLANAR MONOPOLE ANTENNA USING CIRCULAR SLOTS	6 Months	0.05	0.05	SCOPUS Journal

Veera Raghava Swamy Nalluri	Analysis of frequency dependent Vedic chanting and its influence on neural activity of humans	6 Months	0.05	0.05	SCOPUS Journal
Dr.K.Jagadeesh Babu	Radiation Pattern Improvement of Bowtie Antenna Using Annular Ring	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE
Dr.K.Jagadeesh Babu	A Compact Antenna Sensor for Diagnosis of Glucose Concentration in Blood Samples	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE
Dr.K.Jagadeesh Babu	Design of Triangular Shaped Multiple Input Multiple Output Antenna with Defected Substrate	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE
Dr.K.Jagadeesh Babu	A Novel Compact Two-Port MIMO Antenna Verified with TCM Analysis	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE
Dr.K.Jagadeesh Babu	Design and Modal Analysis of a High Gain Cavity Backed Bowtie Antenna	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE
Dr.B. Kiran Kumar	A Planar ϕ-Shaped Microwave Antenna Sensor for Glucose Concentration Monitoring	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE
Dr.B. Kiran Kumar	A Non-Invasive Glucose Monitoring Using Double S-Shaped Antenna Band Stop Filter	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE
Dr.D.Rajendra Prasad	A SWB Antenna for Millimetre Wireless Applications	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE
Veera Raghava Swamy Nalluri	Enhancing Human Brain Neural Activity through Sanathan Vedic Chanting with spectral analysis	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE
U. Nalini	Performance Analysis of U-Net-Based Brain Tumour Segmentation from MRI images	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE
Dr. RVS Harish	Blood group detection by fingerprint using Image Processing Techniques	6 Months	0.04	0.04	UGC Journal
Dr.B. Kiran Kumar	Design of an ultra-compact dual band antenna for 5G based Communications	6 Months	0.04	0.04	UGC Journal
P. ANIL KUMAR	ESP 32 - Powered Development Board (A modem upgrade to Arduino uno for improved performance	6 Months	0.04	0.04	UGC Journal
Dr. RVS Harish	A Comparative Study of Machine Learning App Roaches for Beart Stroke Prediction	6 Months	0.04	0.04	UGC Journal
Dr.B. Kiran Kumar	Design of A Tri-Band Wearable Antenna for Wireless Applications	6 Months	0.04	0.04	UGC Journal
P. ANIL KUMAR	Implementing System of Spider Robot	6 Months	0.04	0.04	UGC Journal
Dr.D.Rajendra Prasad	IOT based Smart Energy Meter Monitoring with theft Alerting Detection	6 Months	0.04	0.04	UGC Journal
Dr.D.Rajendra Prasad	Power-Efficient VLSI Design: Strategies for Low-Power Applications	6 Months	0.04	0.04	UGC Journal
G. Koteswara Rao	Pregnancy women health monitoring system for prenatal care	6 Months	0.03	0.03	NATIONAL CONFERENCE
P. Chinna Babu	IOT based smart automated kitchen system	6 Months	0.03	0.03	NATIONAL CONFERENCE
S. Ravindra	Implementing a system for fire fighting robot	6 Months	0.03	0.03	NATIONAL CONFERENCE
K. Lakshmi Prasanna	Fishermen border security alert system using iot	6 Months	0.03	0.03	NATIONAL CONFERENCE
K. Surendra Babu	GREEN HOUSE MONITORING SYSTEM USING IOT	6 Months	0.03	0.03	NATIONAL CONFERENCE
T. Siva Leela	Design and implementation of heath monitoring device	6 Months	0.03	0.03	NATIONAL CONFERENCE
G. Sunil Dayakar	Design and implementation of solar powered automatic irrigation system	6 Months	0.03	0.03	NATIONAL CONFERENCE
S. Sai Sandeep	Automatic Railwaygate Controller with Highspeed Alerting System	6 Months	0.03	0.03	NATIONAL CONFERENCE

P. Anil Kumar	Ultrasonic Collision Prevention System for Vehicles	6 Months	0.03	0.03	NATIONAL CONFERENCE
			Amount received (Rs.): 2.34		

(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.K. Jagadeesh Babu	A 4-element crescent shaped two-sided MIMO antenna for UWB, X and Ku band wireless applications	6 Months	0.05	0.05	SCI Journal
Dr.K. Jagadeesh Babu	A non-invasive method of monitoring glucose in blood using a planar Yagi-Uda antenna	6 Months	0.05	0.05	SCI Journal
Dr.K. Jagadeesh Babu	Design and Experimental Analysis of Dual-Port Antenna with High Isolation for 5G Sub 6 GHz:	6 Months	0.05	0.05	SCI Journal
Dr.K. Jagadeesh Babu	Design of novel compact eight-element lotus shaped UWB-MIMO antenna	6 Months	0.05	0.05	SCI Journal
Dr.K. Jagadeesh Babu	A Non-Invasive Method of Glucose Monitoring using FR4 Material Based Microwave Antenna Sensor	6 Months	0.05	0.05	SCI Journal
Dr.K. Jagadeesh Babu	Design and modal analysis of dual-slot circular patch antenna for ultra-wideband applications	6 Months	0.05	0.05	SCI Journal
Dr.D.Rajendra Prasad	Enhancement of QoS in Internet of Things Wearable Devices dependent on 5G Technology	6 Months	0.05	0.05	SCI Journal
Dr.B.Kiran Kumar	A Compact SWB-CSF Antenna for Millimetre Wave Wireless Applications	6 Months	0.05	0.05	SCI Journal
Dr.B.Kiran Kumar	Fractal loaded, novel, and compact two-and eight-element high diversity MIMO antenna	6 Months	0.05	0.05	SCI Journal
Dr. P Srinivasa Rao	UWB ANTENNA WITH TRIPLE BAND NOTCH CHARACTERISTICS	6 Months	0.05	0.05	SCOPUS Journal
Dr.P Srinivasa Rao	Mutual Coupling Reduction In 4 × 4 MIMO Antenna	6 Months	0.05	0.05	SCOPUS Journal
Dr. K. Jagadeesh Babu,	Design and Characteristic Mode Analysis of a Pentagon Shaped UWB Antenna	6 Months	0.05	0.05	SCOPUS Journal
J. Kavitha	Pull – in analysis of L – shaped meandered capacitive pressure sensor at ultra low pressures	6 Months	0.05	0.05	SCOPUS Journal
U. Nalini	A Deep Learning Approach for Brain Tumour Segmentation using Connected-UNets	6 Months	0.05	0.05	SCOPUS Journal
Veera Raghava Swamy Nalluri	Analysis of frequency Dependent Vedic Chanting and its influence on Neural Activity of Humans	6 Months	0.05	0.05	SCOPUS Journal
Dr.K. Jagadeesh Babu	Characteristic Mode Analysis of a Modified Circular Monopole UWB-MIMO Antenna	6 Months	0.05	0.05	SCOPUS Journal
U. Jayaram	Design and Simulation Analysis of Different Diaphragm Shapes for Piezoresistive Pressure Sensor	6 Months	0.05	0.05	INTERNATIONAL CONFERENCE
N. Syamala	LoRa Based Cube Satellite for Weather Forecasting	6 Months	0.04	0.04	UGC Journal
Dr. RVS Harish	Number plate Recognition using Image Processing	6 Months	0.04	0.04	UGC Journal
Dr. D. Rajendra Prasad	IOT BASED WIRELESS SENSOR NETWORK FOR AIR POLLITION MONITORING	6 Months	0.04	0.04	UGC Journal
Dr. G. Srinivasa Rao	SMART SHOE FOR POWER GENERATION FROM PIEZOELECTRIC FOOTSTEP TECHNIQUE	6 Months	0.04	0.04	UGC Journal
Dr. D. Rajendra Prasad	ONE UNIT CUBE SATELLITE FOR WEATHER FORECASTING USING LONG RANGE TECHNOLOGY	6 Months	0.04	0.04	UGC Journal
J. Kavitha	HOME AUTOMATION USING IOT & AWS	6 Months	0.04	0.04	UGC Journal
Dr.B. Kiran Kumar	A Compact Planar Four Port MIMO Antenna for 28 or 38 GHz mm wave 5G Applications	6 Months	0.04	0.04	UGC Journal
Dr. RVS Harish	FACIAL EMOTION DETECTION WITH LOCAL BINARY PATTERN	6 Months	0.04	0.04	UGC Journal
J.Kavitha	Analysis on Various Clamping Models of Square Shaped Diaphragm in Capacitive Pressure Sensor	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE
Dr.Bandi Kiran Kumar	Fractal Based 8-Element Multiple Input Multiple Output (MIMO) Antenna for WLAN Applications	6 Months	0.03	0.03	INTERNATIONAL CONFERENCE

Dr.B. Kiran Kumar	Design and analysis of 4 element UWB MIMO antenna for portable wireless device applications	6 Months	0.05	0.05	SCI Journal
Dr.P Srinivasa Rao	Compact dual-band design and analysis of half-circular U-shape MIMO for wireless applications	6 Months	0.05	0.05	SCI Journal
			Amount received (Rs.): 1.33		

Total amount (Lacs) received for the past 3 years : 6.71

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	COMPUTER LAB-101A	1	MULTISIM, MATLAB,XILINX,GDB COMPILER, CODE COMPOSER STUDIO, DSP PROCESSORS(TI)	91.66%	N.Shekar Babu	Lab Assistant	Diploma
2	MICRO PROCESSOR LAB	3	MICRO PROCESSOR, MICRO CONTROLLER, TASM, KEIL, 8051 and 8086 KITS, UART, ARM CORTEX, STEPPER MOTOR, 7 SEGMENT DISPLAY	83.33%	A Rama Mohan Rao	Lab Assistant	Diploma
3	IC LAB	3	DSO, TRAINER KITS, FUNCTION GENERATORS, RPS	41.66%	K Sravani	Lab Assistant	B.Tech
4	COMPUTER LAB-201D	1	MICROWIND 3.9, MATLAB, CST, NA LAB VIEW	100%	Y S Naga Lakshmi	Lab Assistant	B.Tech
5	ECA LAB	3	DSO,FUNCTION GENERATORS,RPS, RESISTORS, CAPACITORS, DIODES	80%	K Sruthi	Lab Assistant	B.Tech
6	EDC LAB	3	DSO,FUNCTION GENERATORS,RPS, RESISTORS, CAPACITORS, DIODES	83.33%	SK Mubina	Lab Assistant	B.Tech
7	COMMUNICATION LAB	3	AM-DSBSC MODULATION AND DEMODULATION KIT, AM AND DEMODULATION KIT, DIODE DETECTOR, PRE-EMPHASIS AND DE-EMPHASIS KIT	58.33%	P Pavani	Lab Assistant	B.Tech

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Electronic Devices and Circuits Lab	• Fire Extinguishers (Cartridge Type), Fire hose Reels are placed in proper location to steer clear of fire accidents. • Electrical Earth and MCB protections are provided. • Generator backup is provided for uninterrupted power supply and to prevent any damage caused by power fluctuations. • First Aid box is provided. • The Display Boards containing safety, Do's & Don'ts

2	Electronic Circuit Analysis Lab	• Fire Extinguishers (Cartridge Type), Fire hose Reels are placed in proper locations to steer clear of fire accidents. • Electrical Earth and MCB protections are provided. • Generator backup is provided for uninterrupted power supply and to prevent any damage caused by power fluctuations. • First Aid box is provided. • The Display Boards containing safety, Do's & Don'ts
3	Communication Lab	• Fire Extinguishers (Cartridge Type), Fire hose Reel are placed in proper location to steer clear of fire accidents. • Electrical Earth and MCB protections are provided. • Generator backup is provided for uninterrupted power supply and to prevent any damage caused by power fluctuations. • First Aid box is provided. • The Display Boards containing safety, Do's & Don'ts are kept in the laboratory. • There is an Entry door and Exit door for safety purposes
4	IC Lab	• Fire hose Reel are placed in proper location to steer clear of fire accidents. • Electrical Earth and MCB protections are provided. • Generator backup is provided for uninterrupted power supply and to prevent any damage caused by power fluctuations. • First Aid box is provided. • The Display Boards containing safety, Do's & Don'ts are kept in the laboratory • There is an Entry door and Exit door for safety purposes
5	Microprocessor Lab	• Fire Extinguishers (Cartridge Type), Fire hose Reel are placed in proper location to steer clear of fire accidents. • Electrical Earth and MCB protections are provided. • Generator backup is provided for uninterrupted power supply and to prevent any damage caused by power fluctuations.. • The Display Boards containing safety, Do's & Don'ts are kept in the laboratory • There is an Entry door and Exit door for safety purposes
6	Computer Lab-101A	• Fire Extinguishers (Cartridge Type), Fire hose Reel are placed in proper location to steer clear of fire accidents. • Electrical Earth and MCB protections are provided. • UPS facility is provided to prevent any damage caused by power fluctuations. • First Aid box is provided. • The Display Boards containing safety, Do's & Don'ts are kept in the laboratory.
7	Computer Lab-201D	• Fire Extinguishers (Cartridge Type), Fire hose Reel are placed in proper location to steer clear of fire accidents. • Electrical Earth and MCB protections are provided. • UPS facility is provided to prevent any damage caused by power fluctuations. • First Aid box is provided. • The Display Boards containing safety, Do's & Don'ts are kept in the laboratory

D3. Project Laboratory/Research Laboratory

7.5.1 Project Laboratory

The Project Laboratory of the Electronics and Communication Engineering (ECE) Department plays a vital role in bridging the gap between theoretical knowledge and practical application. It provides students with an opportunity to apply engineering principles, modern tools, and interdisciplinary concepts to solve real-world problems.

The primary objective of the Project lab is to provide an environment that encourages **hands-on learning**, enabling students to transform their **ideas into functional prototypes**

A. Facilities Available:

- Desktop systems with latest configuration and high-speed internet connectivity
- IoT development boards such as Arduino, Raspberry Pi, ESP32/ESP8266
- Variety of sensors and actuators (temperature, humidity, motion, gas, light, etc.)
- Networking components and gateways for IoT communication.
- Open-source software tools for programming, simulation, data analytics.
- Power supply units, soldering kits, testing instruments, and safety equipment

B. Utilization:

- Mini projects and major capstone projects as per curriculum
- Design, simulation, implementation, and testing of ECE systems
- Use of modern tools such as MATLAB, Multisim, Proteus, HDL tools, and embedded platforms
- Development of projects in areas like communication systems, VLSI, embedded systems, signal processing, IoT, and AI application

C. Outcomes:

- The Project Laboratory is accessible beyond regular class hours under faculty supervision, encouraging collaborative learning, innovation, and independent problem-solving.
- This facility plays a vital role in achieving **Program Outcomes (POs)** such as problem analysis, design/development of solutions, modern tool usage, and **Program Specific Outcomes (PSOs)** related to design and implementation.

7.5.2 Research laboratory

Antenna Research Laboratory is a specialized facility for designing, simulating, and testing antennas featuring equipment like Network Analyzer to develop next-gen wireless tech for mobile, radar, and biomedical applications, crucial for modern communication. Department of ECE received Research grant worth **Rs.621349 from AICTE under Research Promotion Scheme (RPS)** scheme. **Dr.K.Jagadeesh babu, Principal is PI** and **Dr B Kiran Kumar, Professor, Dept. of ECE is Co-PI of the project.**

A. Utilization:

Antenna Research Laboratory is utilized for:

- Design, simulation, and optimization of various antenna types such as microstrip, patch, and array antennas.
- Measurement and analysis of antenna parameters including return loss, VSWR, impedance and bandwidth using a Vector Network Analyzer
- Validation of simulated antenna models through experimental testing and result comparison
- Development of antennas for applications in mobile communication, radar systems, satellite communication, and biomedical devices
- Conducting undergraduate and postgraduate project work, research activities.
- Training students and researchers in the use of modern RF and microwave measurement instruments.
- Also, the lab has 10 systems with internet facility and air condition utilized by **UG and Research scholars.**

B. Outcomes:

After utilizing the Antenna Research Laboratory, students and researchers will be able to:

- Design and analyze antennas to meet specific performance and application requirements
- Use modern simulation and measurement tools effectively for antenna development
- Interpret experimental data and correlate measured results with theoretical predictions
- Apply antenna concepts to real-world wireless, radar, and biomedical communication systems
- Conduct independent research and contribute to advancements in next-generation wireless technologies
- Demonstrate professional skills such as technical documentation, teamwork, and effective communication
- Exhibit awareness of emerging trends, societal needs, and ethical practices in wireless communication engineering

7.5.3 Centre of excellence

Centre of excellence (Industry-Sponsored Lab (ISL)) established at our esteemed institute by Sri Shasha Prayathi Technologies Pvt. Ltd., offered **at no additional cost**. This initiative is a part of our ongoing efforts **to strengthen industry-academia collaboration** and **foster innovation among students and faculty.**

As part of the **CoE**, they also established the setup of a **dedicated training center** within the campus. This center will serve as a **platform for continuous learning**, **faculty development**, **student internships**, and **industry-recognized certification programs**.

Lab Infrastructure and Equipment:

The lab is equipped with the following FPGA-based development tools in two phases:

• **DE10-Lite** –Intel Altera FPGA boards

• **DE0-Nano** –Intel Altera FPGA boards

• **Installation of Associated Open-Source Software Tools**

This infrastructure will enable students and faculty to carry out end-to-end project development, simulation, and hardware implementation effectively

Details of the Industry-Sponsored Lab (Intel FPGA-Based Lab)

A. Industry-Relevant Practical Training

- Provides students with advanced design and implementation experience in digital systems using **Intel FPGAs.**
- Enables projects in **Digital Design**, **Communication Systems**, **Signal Processing**, and **Embedded Systems**.

B. Lab manuals are designed

- Lab manuals are designed to provide a comprehensive understanding of RTL coding and FPGA design related to various subjects taught in engineering institutions curriculum.

7.5.4 Innovarsity Incubation Centre

The Department of ECE started incubation center in collaboration with Innovarsity, Vijayawada. The ideas of the students will be transformed to working models and prototypes in this center**.**

- Dedicated incubation centre with workspace, mentoring support, project development infrastructure, and startup guidance.
- To promote innovation, entrepreneurship, and industry-oriented project development among students
- Used by student teams and faculty mentors for startup ideas, product development, prototype creation, and project-based learning

7.5.5 JNTUK Approved Research Centre (ECE)

The department of **ECE** Recognized and approved **Research Centre** by **Jawaharlal Nehru Technological University, Kakinada.**

Purpose:

To promote Ph.D. research, faculty publications, funded research, and advanced student projects

Utilization:

Used by research scholars, faculty members, and selected UG/PG students for research work, publications, project guidance, and innovation

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)	840	42	48	0	91

2024-25(CAYm1)	840	42	52	0	99
2025-26(CAY)	960	48	59	0	98

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	8000000	7733086	27500000	27197402	36500000	36117629	8500000	8042277
Library	1200000	1130796	1350000	1318882	800000	728149	400000	402446
Laboratory equipment	23000000	24014587	9000000	8844034	3000000	3116732	24000000	23370138
Teaching and non-teaching staff salary	157643676	128486014	152000000	151081444	132000000	131509196	126000000	125713722
Outreach Programs	150000	144752	85000	81232	90000	36200	50000	56116
R&D	1400000	1586877	1750000	1878606	250000	1339439	1600000	1716767
Training, Placement and Industry linkage	5000000	4768766	1750000	1728315	650000	614750	575000	562264
SDGs	14000000	14294576	700000	704858	1300000	1304148	1400000	1379673
Entrepreneurship	50000	48750	70000	69250	100000	97500	55000	53071
Others, specify	62000000	62160058	78000000	77696245	96000000	93311823	81000000	80775383
Total	**272443676**	**244368262**	**272205000**	**270600268**	**270690000**	**268175566**	**243580000**	**242071857**

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	4760000	4757568	2100000	2046198	480000	473511	4600000	4552435
Software	410000	407527	370000	360800	700000	684400	450000	433033
SDGs	3150000	3136971	160000	159565	600000	573510	470000	452600
Support for faculty development	175000	165487	200000	198500	170000	160000	170000	160000

R & D	460000	456685	565000	552383	500000	469632	920000	906530
Industrial Training, Industry expert, Internship	1100000	1070299	400000	382540	200000	200000	150000	150000
Miscellaneous Expenses*	1400000	1380752	620000	617385	550000	538147	4300000	4272928
Total	**11455000**	**11375289**	**4415000**	**4317371**	**3200000**	**3099200**	**11060000**	**10927526**