

**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> 10826	<b>Date of Submission:</b> 20-07-2025

**PART A- Profile of the Institute**

<b>A1.Name of the Institute:</b> NARSIMHA REDDY ENGINEERING COLLEGE	
Year of Establishment : 2007	Location of the Institute: Maisammaguda (V), Kompally - 500100, Secunderabad
<b>A2. Institute Address:</b> Maisammaguda, Dhulapally via Kompally, Secunderabad - 500100	
City:Ranga Reddy	State:Telangana
Pin Code:500100	Website:http://www.nrcmec.org
Email:principal@nrcmec.org	Phone No(with STD Code):040-23792455
<b>A3. Name and Address of the Affiliating University (if any):</b>	
Name of the University : JNTUH HYDERABAD	City: Medchal
State : Telangana	Pin Code: 500085
<b>A4. Type of the Institution:</b> Self-Supported Institute	
<b>A5. Ownership Status:</b> Self financing	

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

- No. of UG programs: **9**
- No. of PG programs: **1**

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	Civil Engineering	2013	--	Civil Engineering
2	Engineering & Technology	UG	Computer Science and Engineering	2007	--	Computer Science and Engineering
3	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2020	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
4	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2020	--	Computer Science and Engineering (Cyber Security)
5	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2020	2023	Computer Science and Engineering (Data Science)
6	Engineering & Technology	UG	Electrical and Electronics Engineering	2009	--	Electrical and Electronics Engineering
7	Engineering & Technology	UG	Electronics & Communication Engineering	2007	--	Electronics and Communication Engineering

8	Engineering & Technology	UG	Information Technology	2023	--	Information Technology
9	Engineering & Technology	UG	Mechanical Engineering	2009	--	Mechanical Engineering
10	Management	PG	Master of Business Administration	2009	--	Management

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

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

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Electrical and Electronics Engineering	No	Electrical and Electronics Engineering	UG
Electronics and Communication Engineering	No	Electronics & Communication Engineering	UG
Civil Engineering	No	Civil Engineering	UG

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.

Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record
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**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 ACCREDITI
1	Electronics & Communication Engineering	UG	2007 / --	60	Yes	2008	120	2008	F. No. 730-50-521 (E)/ET/2007	Granted accreditation for 3 years for the period (specify period)	2022	2025	2

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 KALISSETTI PURUSHOTHAM 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)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
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N=Sanctioned intake of the program (as per AICTE /Competent authority)	120	120	120	120	120	120	120
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	118	119	119	96	120	120	120
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	14	14	37	12	8	12
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	7	8	8	6	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	125	141	141	139	132	128	132

CAY= Current Academic Year. CAYm1= Current Academic Year Minus 1 CAYm2= Current Academic Year Minus 2. LYG= Last Year Graduate. LYGm1= Last Year Graduate Minus 1. LYGm2= Last Year Graduate Minus 2.

#### B4. Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2024-25 (CAY)	120	118	7	104.17
2023-24 (CAYm1)	120	119	8	105.83
2022-23 (CAYm2)	120	119	8	105.83

Average [ (ER1 + ER2 + ER3) / 3 ] = 105.28≅ 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	(2020-21) LYG	(2019-20) LYGm1	(2018-19) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	132.00	128.00	132.00
B=No. of students who graduated from the program in the stipulated course duration	124.00	109.00	107.00
Success Rate (SR)= (B/A) * 100	93.94	85.16	81.06

Average SR of three batches ((SR\_1+ SR\_2+ SR\_3)/3): 86.72

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

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

Academic Performance	CAYm1( 2023-24 )	CAYm2( 2022-23 )	CAYm3 ( 2021-22 )
Mean of CGPA or mean percentage of all successful students(X)	7.64	7.32	7.05
Y=Total no. of successful students	121.00	125.00	99.00
Z=Total no. of students appeared in the examination	121.00	125.00	99.00
API [X*(Y/Z)]	7.64	7.32	7.05

Average API[ (AP1+AP2+AP3)/3 ] : 7.34

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

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

Academic Performance	CAYm1 ( 2023-24 )	CAYm2 ( 2022-23 )	CAYm3 ( 2021-22 )
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	7.82	7.63	7.34
Y=Total no. of successful students	133.00	134.00	130.00
Z=Total no. of students appeared in the examination	139.00	136.00	131.00
API [ X * (Y/Z) ]	7.48	7.52	7.28

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

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

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

Academic Performance	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.92	7.74	7.43
Y=Total no. of successful students	130.00	130.00	127.00
Z=Total no. of students appeared in the examination	134.00	130.00	128.00
API [ X*(Y/Z) ]:	7.68	7.74	7.37

Average API [ (AP1 + AP2 + AP3)/3 ] : 7.60

**B9. Placement, Higher Studies, and Entrepreneurship**

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

Item	LYG (2020-21)	LYGm1(2019-20)	LYGm2(2018-19)
FS*=Total no. of final year students	132.00	128.00	132.00
X=No. of students placed	100.00	99.00	101.00
Y=No. of students admitted to higher studies	5.00	5.00	5.00
Z= No. of students taking up entrepreneurship	1.00	0.00	0.00
Placement Index(P) = ((X + Y + Z)/FS) * 100):	80.30	81.25	80.30

Average Placement Index = (P\_1 + P\_2 + P\_3)/3: 80.62 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 KALISSETTI PURUSHOTHAM PRASAD	XXXXXXXX21K	Ph.D	Sri Venkateswara University, Tirupati, Andhra Pradesh	Signal processing	16/08/2022	2.10	Professor	Professor	16/08/2022	Regular	Yes		Yes
2	Dr SHOBAN MUDE	XXXXXXXX49L	Ph.D	Osmania University, Hyderabad, Telangana	VLSI	01/03/2021	4.3	Associate Professor	Professor	03/06/2024	Regular	Yes		No
3	Dr KARNEY DAMODAR	XXXXXXXX26M	Ph.D	SunRise University Campus, Alwar, Rajasthan	Wireless Communication	28/04/2022	3.1	Associate Professor	Associate Professor	28/04/2022	Regular	Yes		No
4	Dr PURANDHAR REDDY V	XXXXXXXX73R	Ph.D	Vellore Institute of Technology University, Chennai, Tamil Nadu	Computer Vision	24/07/2023	1.11	Assistant Professor	Associate Professor	16/12/2024	Regular	Yes		No
5	Dr GORRE NAGA JYOTHI SREE	XXXXXXXX97Q	Ph.D	Vignan's Foundation for Science, Technology and Research (Deemed to be University), Vadlamudi, Guntur	RF & Microwave	24/07/2023	1.11	Associate Professor	Associate Professor	24/07/2023	Regular	Yes		No
6	Dr R. MURUGESAN	XXXXXXXX59J	Ph.D	Anna University Chennai, Tamil Nadu	INFORMATION AND COMMUNICATION ENGINEERING	16/12/2019	5.4	Associate Professor	Associate Professor	16/12/2019	Regular	No	10/05/2025	No
7	NEELAM PAVITHRA	XXXXXXXX46K	M.Tech	Sri Venkateswara University, Tirupati, Andhra Pradesh	Electronics instrumentation and Communication systems	16/02/2023	2.4	Assistant Professor	Assistant Professor		Regular	Yes		No
8	VELPURI NAGA LAKSHMI	XXXXXXXX38R	M.Tech	Jawaharlal Nehru Technological University Hyderabad	Digital Systems and Computer Electronics	03/07/2021	3.11	Assistant Professor	Assistant Professor		Regular	Yes		No
9	BANDI RAJU	XXXXXXXX82P	M.Tech	Jawaharlal Nehru Technological University Hyderabad	VLSI Design	04/11/2019	5.7	Assistant Professor	Assistant Professor		Regular	Yes		No
10	NAGIRI RAMESH KUMAR	XXXXXXXX77H	M.Tech	Jawaharlal Nehru Technological University Hyderabad	Electronics and Communication Engineering	17/08/2015	9.10	Assistant Professor	Assistant Professor		Regular	Yes		No
11	LINGOJI HARIKRISHNA CHARY	XXXXXXXX74N	M.Tech	Jawaharlal Nehru Technological University Hyderabad	VLSI and Embedded systems	31/01/2022	3.4	Assistant Professor	Assistant Professor		Regular	Yes		No

12	JAYASRI MOTHUKURI	XXXXXXXX70L	M.Tech	Jawaharlal Nehru Technological University Kakinada, Andhra Pradesh	Digital Electronics and Communication Systems	11/07/2022	2.11	Assistant Professor	Assistant Professor		Regular	Yes		No
13	GANDIKOTA SUJANA	XXXXXXXX51L	M.Tech	Jawaharlal Nehru Technological University Hyderabad	Embedded Systems	07/07/2023	1.11	Assistant Professor	Assistant Professor		Regular	Yes		No
14	GOUSIYA BEGUM	XXXXXXXX46G	M.Tech	Jawaharlal Nehru Technological University Hyderabad	VLSI System Design	07/08/2023	1.10	Assistant Professor	Assistant Professor		Regular	Yes		No
15	SIVA KALYANI PAPPURU	XXXXXXXX69N	M.Tech	Jawaharlal Nehru Technological University Anantapur, Andhra Pradesh	Embedded Systems	07/07/2023	1.11	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Y MARY MANIKYA VEENA	XXXXXXXX49Q	M.Tech	Jawaharlal Nehru Technological University Hyderabad	VLSI System Design	03/07/2023	1.11	Assistant Professor	Assistant Professor		Regular	Yes		No
17	MUTHYALA ARUNA JYOTHI	XXXXXXXX68R	M.Tech	Jawaharlal Nehru Technological University Hyderabad	Embedded Systems & VLSI Design	08/07/2024	0.11	Assistant Professor	Assistant Professor		Regular	Yes		No
18	NAGELLA JYOTHSNA	XXXXXXXX71J	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR	VLSI (or) VLSI System Design (or) VLSI Systems	18/06/2024	1	Assistant Professor	Assistant Professor		Regular	Yes		No
19	M SUDHAKAR	XXXXXXXX68G	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR	Digital system and Computer Electronics	29/07/2024	0.10	Assistant Professor	Assistant Professor		Regular	Yes		No
20	KODA KARTHIK	XXXXXXXX73L	M.Tech	Jawaharlal Nehru Technological University Hyderabad	VLSI SYSTEM DESIGN	24/07/2023	1.11	Assistant Professor	Assistant Professor		Regular	Yes		No
21	TIRUPATHI VEERAMANI	XXXXXXXX99D	M.Tech	Jawaharlal Nehru Technological University Hyderabad	VLSI SYSTEM DESIGN	26/10/2015	9.8	Assistant Professor	Assistant Professor		Regular	Yes		No
22	AMGOTH SRINIVAS	XXXXXXXX89J	M.Tech	Jawaharlal Nehru Technological University Hyderabad	VLSI SYSTEM DESIGN	10/03/2022	3.3	Assistant Professor	Assistant Professor		Regular	Yes		No

23	G JOY SANGEET RAJ	XXXXXXX64H	M.Tech	Jawaharlal Nehru Technological University Hyderabad	Embedded Systems	13/07/2023	1.11	Assistant Professor	Assistant Professor		Regular	Yes		No
24	SUNITHA BAI J	XXXXXXX31G	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR	VLSI System Design	22/01/2024	1.4	Assistant Professor	Assistant Professor		Regular	No	03/06/2025	No
25	DICHIPALLY YESHA SREE	XXXXXXX81E	M.Tech	Jawaharlal Nehru Technological University Hyderabad	EMBEDDED SYSTEMS	15/03/2021	4.1	Assistant Professor	Assistant Professor		Regular	No	03/05/2025	No
26	SHAIK KHALEEL	XXXXXXX75J	M.Tech	Jawaharlal Nehru Technological University Kakinada, Andhra Pradesh	VLSI SYSTEM DESIGN	02/03/2020	5.3	Assistant Professor	Assistant Professor		Regular	No	05/06/2025	No
27	SRIDHAR M	XXXXXXX29E	M.Tech	Jawaharlal Nehru Technological University Hyderabad	Electronics and Communication Engineering	17/06/2024	0.10	Assistant Professor	Assistant Professor		Regular	No	09/05/2025	No
28	M SREEDHAR REDDY	XXXXXXX58R	M.Tech	Jawaharlal Nehru Technological University Hyderabad	Systems and Signal Processing	02/01/2025	0.5	Assistant Professor	Assistant Professor		Regular	Yes		No
29	A DILEEP	XXXXXXX74B	M.Tech	Jawaharlal Nehru Technological University Hyderabad	VLSI SYSTEM DESIGN	31/12/2024	0.5	Assistant Professor	Assistant Professor		Regular	Yes		No
30	K ANURADHA	XXXXXXX40Q	M.Tech	Jawaharlal Nehru Technological University Hyderabad	Electronics and Communication Engineering	18/06/2025	0	Assistant Professor	Assistant Professor		Regular	Yes		No
31	Dr R Venkata Krishnaiah	XXXXXXX71N	Ph.D	Jawaharlal Nehru Technological University, Anantapur, Andhra Pradesh	Embedded Systems	25/01/2022	2.5	Professor	Professor	25/01/2022	Regular	No	23/07/2024	No
32	GOKULA SPICA SUJEETHA	XXXXXXX15P	M.Tech	Jawaharlal Nehru Technological University Hyderabad	Wireless and Mobile Communication	16/02/2021	3.3	Assistant Professor	Assistant Professor		Regular	No	06/06/2024	No
33	LAKSHMI K	XXXXXXX71L	M.Tech	Jawaharlal Nehru Technological University Hyderabad	VLSI System Design	04/07/2012	12	Assistant Professor	Assistant Professor		Regular	No	20/07/2024	No

34	Dr HONEY DURGA PRASAD TIWARI	XXXXXXXX63G	Ph.D	Konkuk University, Republic of Korea	Wireless Communication	06/06/2018	5	Professor	Professor	06/06/2018	Regular	No	10/06/2023	No
35	MANASA KOPPULA	XXXXXXXX94D	M.Tech	Jawaharlal Nehru Technological University Hyderabad	Wireless Mobile Communication	30/07/2021	1.11	Assistant Professor	Assistant Professor		Regular	No	03/07/2023	No
36	KALAKA ANNAMMA	XXXXXXXX34E	M.Tech	Jawaharlal Nehru Technological University Hyderabad	VLSI System Design	24/01/2022	1.5	Assistant Professor	Assistant Professor		Regular	No	14/07/2023	No
37	ERRA PRANUSHA	XXXXXXXX73J	M.Tech	Jawaharlal Nehru Technological University Hyderabad	Embedded Systems	02/03/2020	3.3	Assistant Professor	Assistant Professor		Regular	No	30/06/2023	No
38	PREETHAM MANDAL	XXXXXXXX09M	M.Tech	Techno India University, Kolkata, West Bengal	Electronics and Communication Engineering	07/07/2021	1.11	Assistant Professor	Assistant Professor		Regular	No	24/06/2023	No
39	LINGAM SAILAJA	XXXXXXXX44E	M.Tech	Jawaharlal Nehru Technological University Hyderabad	Digital System and Computer Electronics	31/07/2021	1.11	Assistant Professor	Assistant Professor		Regular	No	03/07/2023	No
40	PUSULURU SUREKHA	XXXXXXXX87K	M.Tech	Jawaharlal Nehru Technological University Hyderabad	Embedded Systems and VLSI Design	30/07/2021	1.10	Assistant Professor	Assistant Professor		Regular	No	21/06/2023	No
41	NIMMALA SWETHA	XXXXXXXX70H	M.Tech	Jawaharlal Nehru Technological University Hyderabad	Embedded Systems	30/07/2021	1.11	Assistant Professor	Assistant Professor		Regular	No	25/07/2023	No
42	Dr R Kalyani	XXXXXXXX32P	M.Tech	Annamalai University, Tamil Nadu	Electronics and Communication Engineering	01/03/2022	0.5	Associate Professor	Associate Professor		Regular	No	23/08/2022	No
43	AHANKARI SACHIN SURESH	XXXXXXXX32C	M.Tech	Jawaharlal Nehru Technological University Kakinada, Andhra Pradesh	VLSI System Design	15/12/2021	2.5	Assistant Professor	Assistant Professor		Regular	No	31/05/2024	No
44	L CHANDRA SHEKAR	XXXXXXXX08C	M.Tech	Jawaharlal Nehru Technological University Hyderabad	Embedded Systems	16/03/2021	2.2	Assistant Professor	Assistant Professor		Regular	No	10/06/2023	No
45	MULAVAGILI SIVAIAH	XXXXXXXX51A	M.Tech	Jawaharlal Nehru Technological University Hyderabad	VLSI System Design	30/07/2021	1.11	Assistant Professor	Assistant Professor		Regular	No	15/07/2023	No



46	Dr NETTEM ADITHYA VALLI	XXXXXXXX53Q	Ph.D	GITAM Deemed to be University, Visakhapatnam, Andhra Pradesh	Radar Signal Processing	01/08/2023	1.10	Associate Professor	Associate Professor	01/08/2023	Regular	Yes		No
47	TALLAPALLY HARIKA	XXXXXXXX56D	M.Tech	Jawaharlal Nehru Technological University Hyderabad	VLSI System Design	30/07/2021	1.11	Assistant Professor	Assistant Professor		Regular	No	27/07/2023	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 Department0

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

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG1.B	132	132	132
UG1.C	132	132	132
UG1.D	132	132	132
<b>UG1: Electronics &amp; Communication Engineering</b>	<b>396</b>	<b>396</b>	<b>396</b>
DS=Total no. of students in all UG and PG programs in the Department	396	396	396
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= 396</b>	<b>S2= 396</b>	<b>S3= 396</b>
DF=Total no. of faculty members in the Department	28	27	28
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= 28</b>	<b>F2= 27</b>	<b>F3= 28</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= 14.14</b>	<b>SFR2= 14.67</b>	<b>SFR3= 14.14</b>
Average SFR for 3 years	<b>SFR= 14.32</b>		

**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 = $2.5 \times [(10X + 4Y) / RF]$
2024-25(CAY)	6	22	19.00	19.47
2023-24(CAYm1)	7	20	19.00	19.74
2022-23(CAYm2)	6	22	19.00	19.47

**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
2024-25	2.00	2.00	4.00	4.00	13.00	22.00
2023-24	2.00	2.00	4.00	5.00	13.00	20.00
2022-23	2.00	3.00	4.00	3.00	13.00	22.00
Average	RF1=2.00	AF1=2.33	RF2=4.00	AF2=4.00	RF2=13.00	AF2=21.33

**C5. Visiting/Adjunct Faculty/Professor of Practice**

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

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	S. Hemanth Kumar	Team Lead	Datapoint IT & Hardware Tech Pvt. Ltd.	Microprocessors and Microcontrollers	27.00
2	K. Anil Kumar	Design Engineer	Datapoint IT & Hardware Tech Pvt. Ltd.	VLSI Design	27.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	K. Anil Kumar	Design Engineer	Datapoint IT & Hardware Tech Pvt. Ltd.	VLSI Design	27.00
2	S. Hemanth Kumar	Team Lead	Datapoint IT & Hardware Tech Pvt. Ltd.	Microprocessors and Microcontrollers	30.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Viplav Sangvi	Design Engineer	Modernize Chip Solutions	VLSI Design	30.00
2	S. Hemanth Kumar	Team Lead	Datapoint IT & Hardware Tech Pvt. Ltd.	Microprocessors and Microcontrollers	22.00

**C6. Academic Research**

Table No. C6.1: Faculty publication details.

S.No.	Item	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
1	No. of peer reviewed journal papers published	5	5	3
2	No. of peer reviewed conference papers published	11	13	12
3	No. of books/book chapters published	7	3	2

**C7. Sponsored Research Project**

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. R. Murugesan	Dr. Shoban Mude	Electronics and Communication Engineering	Technology to take off CO2	MSME	1 Year	15.00
						Amount received (Rs.):15.00

(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 Honey Durga Prasad Tiwari		Electronics and communication Engineering	Science fair for creating awareness among rural communities of Telangana	SERB	1 Year	20.42
Dr. M. Shoban		Electronics and communication Engineering	Mission Amrit sarovar jaldharohar sanrakshan MAS-JDS	AICTE	1 Year	2.00
						Amount received (Rs.):22.42

(CAYm3)

**Total Amount (Lacs) Received for the Past 3 Years: 37.42****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. K. Purushotham Prasad		Electronics and Communication Engineering	Smart Weather Monitoring System using IOT	EFFTRONICS, Vijayawada	12 months	3.00
Dr. M. Shoban		Electronics and Communication Engineering	Design and Implementation of a Non-Invasive Ultrasonic Blood Flow Meter	Verakki Tech Services Private Limited, Hyderabad	12 Months	3.00
N. Pavithra		Electronics and Communication Engineering	Design and Implementation of Ultra Wide Band Mictorstrip Printed Patch Radiator for X band Applications	Atlantic Circuits	6 Months	1.50
						Amount received (Rs.):7.50

**(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. R. Murugesan		Electronics and Communication Engineering	Smart Battery Health Monitoring system	Atlantic Circuits, Hyderabad	24 Months	4.00
M. Jayasri		Electronics and Communication Engineering	Smart Crowd Surveillance System using UAV Technology	TMI Systems, Bangalore	12 Months	1.50
V. Naga Lakshmi		Electronics and Communication Engineering	IoT-Enabled Surveillance System for Public Safety in Mass Gatherings	Expert Embedded solutions Hyderabad	12 Months	1.75
						Amount received (Rs.):7.25

**(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. R. Murugesan		Electronics and Communication Engineering	Energy-Efficient FinFET-Based Subthreshold Current-Mode Digital Sensor for Body Temperature Measurement	Ananth Technologies Hyderabad	12 months	2.50
Dr. M. Shoban		Electronics and Communication Engineering	Localized Crop Spraying Using UAV-Based Autonomous Agricultural System	Orbit Technologies Hyderabad	12 months	3.00
						Amount received (Rs.):5.50

**Total amount (Lacs) received for the past 3 years: 20.25**

**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. M. Shoban	IOT based smart Irrigation System using LORA WAN	12 months	1.00	1.00	An IoT-based smart irrigation system using LoRaWAN enables efficient water management with long-range, low-power communication
			Amount received (Rs.): 1.00		

(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. R. Murugesan	MIMO system performance analysis using Matlab	12 months	2.80	2.80	MIMO system performance analysis using MATLAB demonstrates improved data rates and reliability compared to single-antenna systems
			Amount received (Rs.): 2.80		

(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. Honey Durga Prasad Tiwari	Battery Health Monitoring system	12 months	2.50	2.50	A battery health monitoring system ensures reliable performance by tracking charge, discharge, and overall battery condition
			Amount received (Rs.): 2.50		

Total amount (Lacs) received for the past 3 years : 6.30

## 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	Analog Circuits Laboratory/Analog Electronics Circuits Lab/Electronic	3	1. Regulated Power Suppliers, 0-30V 2. 20 MHz, Dual Channel Cathode Ray Oscilloscopes. 3. Function Generator, Signal Generator	12 Hours	Ch. Monika	Lab Technician	Diploma
2	Microwave and Optical Communications Laboratory (MT-206)	3	1. Reflex Klystron Test Bench Setup 2. Gunn Diode Bench Setup 3. Analog Cathode Ray Oscilloscope 4. VSWR	12 Hours	G. Sai Kiran	Lab Technician	Diploma

3	Basic Simulation Laboratory/Digital Signal Processing Lab/DCN lab (MT-210)	1	1.Computers 2.Open-Source software like NS-2 or NSG-2.1 and Wire SHARK 3.Simulation software-MATLAB, C++, etc.	12 Hours	V. Akash	Lab Programmer	B. Tech
4	Microprocessors & Microcontrollers Lab/(e-CAD) lab/Scripting Language lab	1	1.8086 Microprocessor kits 2. 8051Microcontroller kits 3. 8-bit ADC	12 Hours	V. Akash	Lab Programmer	B. Tech
5	Analog and Digital Communications Laboratory/Elements of Electronics and	3	1.Regulated Power Suppliers, 0-30V 2.20 MHz, Dual Channel Cathode Ray Oscilloscopes	12 Hours	M. Ajay Sai Kumar	Lab Technician	Diploma
6	Digital logic Design Laboratory/ Digital System Design Lab (MT-218)	3	1.0-5V Regulated Power Supply 2.20 MHz Oscilloscope with Dual Channel 3.Bread board and	12 Hours	G. Sai Kiran	Lab Technician	Diploma
7	Electronic Devices and Circuits Lab/IC lab/LDIC lab/LICA lab (MT-219)	3	1.Regulated Power Suppliers, 0-30V 2.20 MHz, Dual Channel Cathode Ray Oscilloscopes	12 Hours	M. Ajay Sai Kumar	Lab Technician	Diploma

## D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Analog Circuits Laboratory/Analog Electronics Circuits Lab/Electronic Circuit Analysis Lab (MT-205)	Basic Safety Measures: Do's 1. Turn up in neat formal dress code 2. Bring Observation and Record for every Lab Session 3. Read and understand the Procedure how to carry out an experiment before coming to the Lab 4. Turn off the equipment once your experiment is completed 5. Keep your workstation area neat Don'ts 1. Don't switch on the Equipment without Permission 2. Do not use the on/off switch to reboot 3. Before leaving the Lab handover the Hardware kits to the Lab In-Charge 4. Do not damage, remove or disconnect any Equipment 5. Do not touch the kits without permission 6. Do not make undue noise in the laboratory 7. Do not use the cell phones in the laboratory Lab Specific Safety Measures: 1. Conduct yourself in a responsible manner at all times in the laboratory 2. Silence must be maintained in the lab at all times 3. CROs, power supplies, and function generators to be handled carefully under staff supervision 4. All components and instruments must be returned after use 5. First-AID kit is available 6. Fire extinguisher is available
2	Microwave and Optical Communications Laboratory (MT-206)	Basic Safety Measures: Do's 1. Turn up in neat formal dress code 2. Bring Observation and Record for every Lab Session 3. Read and understand the Procedure how to carry out an experiment before coming to the Lab 4. Turn off the equipment once your experiment is completed 5. Keep your workstation area neat Don'ts 1. Don't switch on the Equipment without Permission 2. Do not use the on/off switch to reboot 3. Before leaving the Lab handover the Hardware kits to the Lab In-Charge 4. Do not damage, remove or disconnect any Equipment 5. Do not touch the kits without permission 6. Do not make undue noise in the laboratory 7. Do not use the cell phones in the laboratory Lab Specific Safety Measures: 1. Conduct yourself in a responsible manner at all times in the laboratory 2. Silence must be maintained in the lab at all times 3. Students are not allowed to look into open end of a wave- guide or transmitter line 4. Handle microwave benches, VSWR meters, and stabilizers with extreme care; 5. Disconnect wave-guides/cables only under faculty/lab technician supervision 6. First-AID kit is available 7. Fire extinguisher is available
3	Basic Simulation Laboratory/Digital Signal Processing Lab/DCN lab (MT-210)	Basic Safety Measures: Do's 1. Turn up in neat formal dress code 2. Bring Observation and Record for every Lab Session 3. Read and understand the Procedure how to carry out an experiment before coming to the Lab 4. Turn off the equipment once your experiment is completed 5. Keep your workstation area neat Don'ts 1. Don't switch on the Equipment without Permission 2. Do not use the on/off switch to reboot 3. Before leaving the Lab handover the Hardware kits to the Lab In-Charge 4. Do not damage, remove or disconnect any Equipment 5. Do not touch the kits without permission 6. Do not make undue noise in the laboratory 7. Do not use the cell phones in the laboratory Lab Specific Safety Measures: 1. Conduct yourself in a responsible manner at all times in the laboratory 2. Silence must be maintained in the lab at all times 3. Playing of games on computer in the lab is strictly prohibited 4. Users are strictly prohibited from downloading, viewing or distributing any offensive materials (for example pornography, profane language etc.) 5. Users are strictly prohibited from modifying or deleting any important files and install any software or settings in the computer 6. Internet facility is only for educational/study purpose 7. Students are not allowed to use personal Pen Drives, CDs, DVDs etc., in a Computer Lab. Only prescribed official Pen Drives, CDs, DVDs etc. will be used in the Computer Lab to avoid VIRUS in Computers 8. DO NOT leave your personal belongings at the computer the College is not responsible for items left behind 9. Users must turn-off the computer before leaving the lab 10. First-AID kit is available 11. Fire extinguisher is available

4	Microprocessors & Microcontrollers Lab/(e-CAD) lab/Scripting Language lab (MT-211)	Basic Safety Measures: Do's 1. Turn up in neat formal dress code 2. Bring Observation and Record for every Lab Session 3. Read and understand the Procedure how to carry out an experiment before coming to the Lab 4. Turn off the equipment once your experiment is completed 5. Keep your workstation area neat Dont's 1. Don't switch on the Equipment without Permission 2. Do not use the on/off switch to reboot 3. Before leaving the Lab handover the Hardware kits to the Lab In-Charge 4. Do not damage, remove or disconnect any Equipment 5. Do not touch the kits without permission 6. Do not make undue noise in the laboratory 7. Do not use the cell phones in the laboratory Lab Specific Safety Measures: 1. Conduct yourself in a responsible manner at all times in the laboratory 2. Silence must be maintained in the lab at all times 3. Playing of games on computer in the lab is strictly prohibited 4. Users are strictly prohibited from downloading, viewing or distributing any offensive materials (for example pornography, profane language etc.) 5. Processor/microcontroller kits to be powered only after faculty verification; VLSI design tools and HDL software to be used under lab staff guidance. 6. Users are strictly prohibited from modifying or deleting any important files and install any software or settings in the computer 7. Internet facility is only for educational/study purpose 8. DO NOT leave your personal belongings at the computer. the College is not responsible for items left behind 9. Before leaving the lab, users must close all programs positively and keep the desktop blank 10. Users must turn-off the computer before leaving the lab 11. First-AID kit is available 12. Fire extinguisher is available
5	Analog and Digital Communications Laboratory/Elements of Electronics and Communication Engineering (MT-212)	Basic Safety Measures: Do's 1. Turn up in neat formal dress code 2. Bring Observation and Record for every Lab Session 3. Read and understand the Procedure how to carry out an experiment before coming to the Lab 4. Turn off the equipment once your experiment is completed 5. Keep your workstation area neat Dont's 1. Don't switch on the Equipment without Permission 2. Do not use the on/off switch to reboot 3. Before leaving the Lab handover the Hardware kits to the Lab In-Charge 4. Do not damage, remove or disconnect any Equipment 5. Do not touch the kits without permission 6. Do not make undue noise in the laboratory 7. Do not use the cell phones in the laboratory Lab Specific Safety Measures 1. Conduct yourself in a responsible manner at all times in the laboratory 2. Silence must be maintained in the lab at all times 3. Power supply must be switched off before making changes. 4. Breadboards, kits to be wired only as instructed 5. students should test circuits only after verification of connections by faculty/lab staff 6. First-AID kit is available 7. Fire extinguisher is available
6	Digital logic Design Laboratory/Digital System Design Lab (MT-218)	Basic Safety Measures: Do's 1. Turn up in neat formal dress code 2. Bring Observation and Record for every Lab Session 3. Read and understand the Procedure how to carry out an experiment before coming to the Lab 4. Turn off the equipment once your experiment is completed 5. Keep your workstation area neat Dont's 1. Don't switch on the Equipment without Permission 2. Do not use the on/off switch to reboot 3. Before leaving the Lab handover the Hardware kits to the Lab In-Charge 4. Do not damage, remove or disconnect any Equipment 5. Do not touch the kits without permission 6. Do not make undue noise in the laboratory 7. Do not use the cell phones in the laboratory Lab Specific Safety Measures 1. Conduct yourself in a responsible manner at all times in the laboratory 2. Silence must be maintained in the lab at all times 3. Breadboards, ICs, and logic trainer kits to be wired only as instructed 4. students should test circuits only after verification of connections by faculty/lab staff 5. Power supply must be switched off before making changes. 6. First-AID kit is available 7. Fire extinguisher is available
7	Electronic Devices and Circuits Lab/IC lab/LDIC lab/LICA lab (MT-219)	Basic Safety Measures: Do's 1. Turn up in neat formal dress code 2. Bring Observation and Record for every Lab Session 3. Read and understand the Procedure how to carry out an experiment before coming to the Lab 4. Turn off the equipment once your experiment is completed 5. Keep your workstation area neat Dont's 1. Don't switch on the Equipment without Permission 2. Do not use the on/off switch to reboot 3. Before leaving the Lab handover the Hardware kits to the Lab In-Charge 4. Do not damage, remove or disconnect any Equipment 5. Do not touch the kits without permission 6. Do not make undue noise in the laboratory 7. Do not use the cell phones in the laboratory Lab Specific Safety Measures 1. Conduct yourself in a responsible manner at all times in the laboratory 2. Silence must be maintained in the lab at all times 3. CROs, function generators, and trainer kits must be handled carefully; 4. students should test circuits only after verification of connections by faculty/lab staff 5. First-AID kit is available 6. Fire extinguisher is available

**D3. Project Laboratory/Research Laboratory**

**A. Availability of Project Laboratory****Description:**

The department has a dedicated Project Laboratory that functions under the R&D cell. The primary objective of this lab is to provide the necessary facilities for research and experimentation in various domains/emerging areas of Electronics and Communication Engineering. It serves as a space for students to brainstorm, discuss, and implement their innovative ideas, whether for mini projects or final year projects. By providing a state-of-the-art environment for experimentation and collaboration, the project laboratory aims to contribute to the advancement of the field and promote academic and commercial success.

**Equipment Details:**

S.NO	Name of the equipment	Relevance to PO's/PSO's
1	Arduino Uno Kit	PO1, PO2, PO3, PO4, PO5, PO12, PSO1, PSO2
2	Raspberry Pi Kit	
3	Wi-Fi Module (ESP8266)	
4	Sensors (Temperature, Motion, Gas, etc.)	
5	Webcam	
6	PC's	

**B. Availability of Centre of Excellence****Description:**

The Department has established a Centre of Excellence in IoT & Embedded Systems. It is equipped with Arduino, Raspberry Pi kits, IoT sensors, wireless modules, and PCs with open-source software tools such as Arduino IDE, Proteus ISIS, MATLAB, Scilab, Python, CC Studio, MASM etc to enable advanced project and research work. This Centre of Excellence provides a platform for innovation, hackathons, Ignite Project Presentation and industry-oriented mini projects, major projects etc. This facility is designed to foster a culture of research excellence, innovation, and intellectual property protection.

**Equipment Details:****Hardware Details**

S.NO	Name of the equipment	Relevance to PO's/PSO's
1	Arduino Uno Kit	PO1, PO2, PO3, PO4, PO5, PO12, PSO1, PSO2
2	Raspberry Pi Kit	
3	Wi-Fi Module (ESP8266)	
4	Sensors (Temperature, Motion, Gas, etc.)	
5	Webcam	
6	PC's	

**Software Details**



S.NO	Name of the software	Relevance to PO-PSO
1	Arduino IDE	PO1, PO2, PO3, PO4, PO5, PO12, PSO1, PSO2
2	Proteus ISIS	
3	MATLAB/ Scilab	
4	Python	
5	CC Studio	
6	MASM	

### C. Utilization of project laboratories/research laboratory /Centre of excellence

1. Utilization of Project Laboratory: 6 Hours/Week

2. Utilization of Centre of Excellence Laboratory: 6 Hours/Week

### Outcomes of Project laboratory/Centre of Excellence:

### Details of the Sample Student Projects

CAY (2024-2025)				
S. No	Project Title	Student Names	Supervisor	Relevance to PO-PSO
1	EYE Controlled Wheelchair System for Physically Challenged People	Mamidi Joshin Manda Maneesha Ramishetti Nagendra Babu Lingapuram Arvind	MRs. G. Bhagya Lakshmi	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
2	IOT Enabled Garbage Segregation System	Arru Aravind Chokka Shivani Gaddam Sandhya Konderu Vinay	Dr. G. Naga Jyothi Sree	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
3	Power Management Street Light by Vehicles	Nomula Sravya Namile Sai Teja Putta Raju Yelamarthi Sai Prasanth	Mrs. P. Siva Kalyani	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
4	Enhanced Fisherman's Safety with Border Alerting system	Jandyam Sai Venkata Vishnu Kasam Said Dinesh Lashetty Ajay Maheswaram Siddartha	Mr. A. Dileep	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
CAY m1 (2023-2024)				

S. No	Project Title	Student Names	Supervisor	Relevance to PO-PSO
1	IOT Based Coal Mine System	B Ruchitha G Gayatri P Swathi N Ranavika T Akshitha	Mr. K. Karthik	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
2	Smart Stick for the Blind	P Charan Sai V Sai Krishna Ch Uma Mahesh K Prasanth	G. Joy Sangeeth Raj	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
3	Multi-Level Anti-Theft Security System using GSM	M Ajay Sai Kumar A Leela Sai N Raj Sankar Reddy Garapati Yaswanth	A Srinivas	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
4	Advanced Vehicle Detection and Automatic Penalty Collection using IOT	Sayed Usman B Deeraj Kumar V Rohit Reddy U Varun Kumar	Mrs. N. Pavithra	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
CAY m2 (2022-2023)				
S. No	Project Title	Student Names	Supervisor	Relevance to PO-PSO
1	IOT Air and Sound Pollution Monitoring System	Khyatham Bhargavi Kothakapu Meghana Pilli Suresh Gandla Prashant Kumar	Mrs. Mothukuri Jayasri	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
2	Density-Based Traffic Control System using Arduino	Jinukala Gayatri Kyasani Shyam Sundar Vaddula Sai Krishna Mungey Vamsi Krishna Reddy	Mr. Amgoth Srinivas	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
3	Home Embedded Security System	Dussa Uday Krishna Guttula Ravi Teja Pavani Reddy Lingareddy Gari Mannepally Sai Charan	Dr. Murugesan Raja Manikkam	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2

4	Text to speech GUI Converter in Python	A Chanada Reddy R Samba Shivudu M Nava Chaintanya Reddy S Surender Krishna	Mr B Raju	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
<b>CAY m3 (2021-2022)</b>				
S. No	Project Title	Student Names	Supervisor	Relevance to PO-PSO
1	Fire Detection using Image Processing	Alen Philip Ch Priyanka J Vaishnavi Reddy K raja Ram	Mrs. Dichipalli Yeshasree	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
2	Liver Disease prediction using Machine Learning	J Meenakshi M Sahithi S Sai Ganesh P Sreedhar	Mrs. V. Naga Lakshmi	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
3	Cyber bullying detection using Natural Language Processing	B Chandra Sekhar Reddy Ch Varshini Bolloru Jhansi G Navya	Mrs. Spica Sujeetha	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
4	Speech Controlled Robot	G Mahesh M Shravya M Divya Raja Rajeswari D Sreeja	Mrs. K. Sujatha	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2

**Details of Student Publications**

<b>CAY (2024-2025)</b>					
S. No	Name of the Author	Title of the manuscript	Name of the Journal	Volume/Issue No/ISSN No	Month/Year

1	Akula Sushmitha	INTEGRATING GPS AND GSM TECHNOLOGIES FOR ENHANCED WOMENS SAFETY: A FINGERPRINT-ACTIVATED DEVICE APPROACH	Res Militaris	Vol.15, Issue 3,	March, 2025
	Addu Aakanksha				
	Uppala Srujana				
	Kolcharam Laxmi Narayana				
	Bandari Gunakar Reddy				
2	Putta Ravi Chandra	IOT-DRIVEN PRECISION AGRICULTURE USING COMMUNICATION TECHNOLOGIES FOR CROP QUALITY AND REAL-TIME ENVIRONMENTAL MONITORING	Res Militaris	Vol.15, Issue 3,	March, 2025
	Anumula Radha Rohini				
	Kairamkonda Jagadish				
	Bekkam Sai Varma				
	Silver Devi Sri Prasad				
3	Konderu Vinay	IOT BASED SEGREGATION OF GARBAGE	Res Militaris	Vol.15, Issue 3, ISSN 2265-6294	March, 2025
	Gaddam Sandhya				
	Chokka Shivani				
	Arru Aravind				
4	Pothuganti Shravya	AI BASED ACOUSTIC WAVE MONITORING OF RAIL DEFECTS LIKE CRACKS, FRACTURE AND PREDICTION FOR RAIL WEAR, QUALITY ALONG WITH OTHER PARAMETER	Res Militaris	Vol.15, Issue 3, ISSN 2265-6294	March, 2025
	Daripally Tejaswini				
	Kondepati Laxmi Prasanna				
	Nalla Nagendra				
5	K Kavya Sree	ATMOSPHERIC POLLUTANTS MEASURING PREVENTING AND UPDATING TO IOT	Res Militaris	Vol.15, Issue 3, ISSN 2265-6294	March, 2025
	Barkam Sai Teja				
	Morusu Venkat Reddy				
	Kethireddy Vijay Reddy				
6	Muthukur Jahnvi	SECURE AND ENERGY-EFFICIENT SMART HOME AUTOMATION: A USER BASED FINGERPRINT SECURITY SYSTEM	Res Militaris	Vol.15, Issue 3, ISSN 2265-6294	March, 2025
	Veeranki Prameela				
	Rachuri Harish				
	Myadam Sai Kumar				
7	Samba Nagesh	ADVANCED GPS TRACKING AND FOOD DISPENSOR SYSTEM FOR PETS	International Journal of Food and Nutritional Sciences	Volume 14, Issue 04, ISSN 2319 1775	April, 2025
	Vattipally Praneeth				
	Angidi Venkatesh				
	Banala Sampath Reddy				
8	Bonangi Sravani	GUARDIAN AIS FUTURE HOME PROTECTION USING IOT	International Journal of Food and Nutritional Sciences	Volume 14, Issue 04, ISSN 2319 1775	April, 2025
	Mothe Kalyan				
	Boddu Nagamani				
	Mamidela Naveen Kumar				
9	Pottabathini Pranavi	ADVANCED PUBLIC BUS TRANSPORT MANAGEMENT SYSTEM: AN INNOVATIVE SMART BUS CONCEPT	International Journal of Food and Nutritional Sciences	Volume 14, Issue 04, ISSN 2319 1775	April, 2025
	Nagireddy Ranadheer				
	Ch N V Lokesh				
	Kesamoni Akash Chandra				

10	Anupoju Ravi Teja	SMART STICK FOR VISUALLY IMPAIRED INDIVIDUALS	International Journal of Food and Nutritional Sciences	Volume 14, Issue 04, ISSN 2319 1775	April, 2025
	Jakkani Ruchitha				
	Ch N V Rajesh				
	Garimella Rahul				
11	Vadlamani Karthik	WEARABLE SENSOR WITH ARTIFICIAL INTELLIGENCE FOR PREVENTION OF FALLS IN ELDERLY PEOPLE	International Journal of Food and Nutritional Sciences	Volume 14, Issue 04, ISSN 2319 1775	April, 2025
	Bade Sai Jahuli				
	Chillale Akhil				
	Dhake Nikhil				
12	Chakali Naveen Kumar	WIFI BASED SECURED DATA TRANSMISSION AND RECEPTION	International Journal of Food and Nutritional Sciences	Volume 14, Issue 04, ISSN 2319 1775	April, 2025
	Chaluvadi Gowtham				
	D Mahakali Shankar				
	Karne Sampath Reddy				
13	Dasari Jyothi	VEHICULAR ACCIDENT DETECTION AND ALERT GENERATION USING IOT	International Journal of Innovative Engineering and Management Research	Volume. 14, Issue 04, ISSN 2456 – 5083	April, 2025
	Chakrahari Sai Sri				
	Akkireddy Lakshman Reddy				
	Oleti Geeta Naga Sai				
14	D Anil Kumar	POT HOLE DETECTION USING RASBERRY PI	International Journal of Innovative Engineering and Management Research	Volume. 14, Issue 04, ISSN 2456 – 5083	April, 2025
	Kathula Saikumar Reddy				
	G Madhu Kumar				
	Maddi Pavan Kalyan				
15	K Harshavardhan Charry	A MULTIFUNCTIONAL VOICE-CONTROLLED SMART MIRROR FOR HOME AUTOMATION WITH ENHANCED SECURITY	International Journal of Innovative Engineering and Management Research	Volume. 14, Issue 04, ISSN 2456 – 5083	April, 2025
	Koppiseti Sateesh Kumar				
	Janala Pavan Kumar				
	Jondhudi Sai Chandrakanth				
16	Battu Ranjith Reddy	SHIFT A SECURITY HOME INTEGRATION FRAMEWORK FOR IOT	International Journal of Innovative Engineering and Management Research	Volume. 14, Issue 04, ISSN 2456 – 5083	April, 2025
	Sangati Gurunarendra Reddy				
	Bairi Sanjay Kumar				
	Vandana Harshika Sai Priya				
17	V Sai Krishna	A 360-DEGREE NAVIGATION SYSTEM USING A NOVEL MEAN-BASED ALGORITHM	International Journal of Engineering Research and Science and Technology	Vol.21, Issue 2, ISSN 2319-5991	April, 2025
	Thakkalapalli Poojitha				
	Srinivas Reddy Challa				
	Ambeer Akshay				
18	Kalisetty Sandhya	AN ARDUINO-BASED SYSTEM FOR MEDICATION RESTOCKING	International Journal of Engineering Research and Science and Technology	Vol.21, Issue 2, ISSN 2319-5991	April, 2025
	Mettu Jhansi				
	P Mallikarjun Reddy				
	Palayam Subramanyam Akash				

19	Bonala Akhila	FUEL THEFT DETECTION USING AN ARDUINO	International Journal of Engineering Research and Science and Technology	Vol.21, Issue 2, ISSN 2319-5991	April, 2025
	Vadla Shyamsundar				
	Kura Sai Vinay				
	Chegonidi Vivek Vardhan				
20	S Prashanth	IMPLEMENTING A CNN AND RASPBERRY PI SYSTEM TO SAFEGUARD CROPS AGAINST ANIMAL THREATS	International Journal of Engineering Research and Science and Technology	Vol.21, Issue 2, ISSN 2319-5991	April, 2025
	Bompally Sai Nithya Goud				
	Mohammed Waseem Khan				
	Kandula Naveen Kumar				
21	Mangali Sravani	INNOVATION OF A POWER SOURCE THAT CAN MONITOR THE SUNS PATH IN ORDER TO MAXIMIZE THE EFFICIENCY OF SOLAR PANELS	International Journal of Engineering Research and Science and Technology	Vol.21, Issue 2, ISSN2319-5991	April, 2025
	L Sushmitha				
	Medi Laxman Goud				
	Gundu Amarendra				
22	Peddagampala Gongamma	INTELLIGENT TIME TRACKING SYSTEM WITH FACIAL RECOGNITION THROUGH ITS ARDUINO UNO PLATFORM	International Journal of Applied Science Engineering and Management	Vol.19, Issue 2, ISSN 2454 - 9940	March, 2025
	Baddam Sarayu				
	Pallapu Naveen Kumar				
	Bellala Nithin				
23	Bandi Vivek	AMBULANCE NAVIGATION MADE EASIER WITH FINGERPRINT SENSOR INTEGRATION IN SMART HEALTHCARE EMERGENCY APP BY HIGHLIGHTING CRITICAL ROUTES	International Journal of Applied Science Engineering and Management	Vol.19, Issue 2, ISSN 2454 - 9940	March, 2025
	Kothi Rupak				
	Joudi Rahul Reddy				
	Boga Neeraj				
24	Sridhar Reddy Myakala	PRECISION FARMING USING AN INTELLIGENT IRRIGATION SYSTEM	International Journal of Applied Science Engineering and Management	Vol.19, Issue 2, ISSN 2454 - 9940	March, 2025
	Bomma Vamshi				
	T Rohith Reddy				
	Sriramul Sahith				
25	Ailada Srikanya	EXAMINING THE USE OF ARTIFICIAL INTELLIGENCE METHODS IN APPS THAT MAY IDENTIFY DEADLY CAR CRASHES	International Journal of Applied Science Engineering and Management	Vol.19, Issue 2, ISSN 2454 - 9940	March, 2025
	Rachabanti Uday Kiran				
	Boora Premchand				
	Gantyal Jayanth				
26	L Aravindh	A NEW TECHNOLOGY FOR THE ULTRA-DISABLED: THE EYE-CONTROLLED WHEEL CHAIR	International Journal of Applied Science Engineering and Management	Vol.19, Issue 2, ISSN 2454 - 9940	March, 2025
	Mandha Maneesha				
	Mamidi Joshion				
	Ramisetti Nagendrababu				
27	Yelamarthi Sai Prashanth	POWER MANAGEMENT STREET LIGHT BY VEHICLES	International Journal of Applied Science Engineering and Management	Vol.19, Issue 2, ISSN 2454 - 9940	March, 2025
	Nomula Shravva				
	Putta Raju				
	Namili Sai Teja				

28	Lashetti Ajay	BORDER ALERT SYSTEM: MAXIMIZING SAFETY FOR FISHERMAN	International Journal of Modern Electronics and Communication Engineering	Vol 13, Issue 2, ISSN 2321-2152	April, 2025
	Maheswaram Siddartha				
	K Sai Dinesh				
	J Sai Venkata Vishnu				
29	Maisanola Sneha	UTILIZING THE INTERNET OF THINGS FOR INTELLIGENT CROPS AND NEXT-GENERATION SMART FORMING	International Journal of Modern Electronics and Communication Engineering	Vol 13, Issue 2, ISSN 2321-2152	April, 2025
	Arsam Ajay				
	M Shivamani Sharma				
	Annabattuni Harsha Vardhan				
30	Kakaraparthi Venkata Satya Someswara Rao	DUMB PERSON SIGN RECOGNITION AND VOICE TRANSLATION SYSTEM	International Journal of Modern Electronics and Communication Engineering	Vol 13, Issue 2, ISSN 2321-2152	April, 2025
	Saba Fatima				
	Appalabathula Kalyan Chary				
	Jaathikarthi Yugandar				
31	G Rajeh Goud	RASPBERRY PI-POWERED FACE DETECTION LIGHT	International Journal of Modern Electronics and Communication Engineering	Vol 13, Issue 2, ISSN 2321-2152	April, 2025
	Nijjani Suresh				
	Mailugonda Pranay				
	B.V. Karthik Reddy				
32	Seelam Nagendar Reddy	THE FIELD OF NATURAL DISASTER MANAGEMENT ENCOMPASSES CONCEPTS SUCH AS RISK MIGRATION AND PRE- AND POST-DISASTER PLANNING	International Journal of Modern Electronics and Communication Engineering	Vol 13, Issue 2, ISSN 2321-2152	April, 2025
	Pagudala Akhil				
	Thummapala Yeshwanth				
	Thippana Nagendar Reddy				
CAY m1 (2023-2024)					
S. No	Name of the Author	Title of the manuscript	Name of the Journal	Volume / Issue No/ISSN No	Month / Year
1	Srinomula Sai Krishna	AN IOT APPROACH TO DESIGNING WEARABLE SAFETY DEVICES FOR WOMEN	International Journal of Data Science and IOT Management System	Vol 3, Issue 2, ISSN: 3068-272X	Apr-24
	Akula Yugander				
	Sareddygaru Bharath Reddy				
	Satti Uttej				
2	Mittapally Ajay Saikumaralluri Leela Saig Yashwanth Nune Rajashekarreddy	ELECTRONIC WARFARE IN RADAR SYSTEMS: A COMPARATIVE ANALYSIS OF ECM AND ECCM	International Journal of Data Science and IOT Management System	Vol 3, Issue 2, ISSN: 3068-272X	Apr-24
CAY m2 (2022-2023)					
S. No	Name of the Author	Title of the manuscript	Name of the Journal	Volume / Issue No/ISSN No	Month / Year
1	Ch Sudarshini	RESILIENT AND SUSTAINABLE FAULT MANAGEMENT APPROACHES FOR NEXT-GENERATION MEMORY ARCHITECTURES	American Journal of AI Cyber Computing Management	Vol 3, Issue 3, EISSN:3069-0102	May, 2023
	K Tejaswi				
	L V N S Vinuthna				
	Ch Saketh Kumar				

2	B Prashanthi	A SCALABLE ACCURACY-CONTROLLABLE APPROXIMATE MULTIPLIER FOR LOW-POWER HIGH-SPEED APPLICATIONS	International Journal of Engineering Research and Science Technology	Vol 18, Issue 4, ISSN 2319-5991	November, 2022
	K Kushal Nagendra				
	R Sai Charan				
	Ch Renu				
CAY m3 (2021-2022)					
S. No	Name of the Author	Title of the manuscript	Name of the Journal	Volume / Issue No/ISSN No	Month / Year
1	B Chandrashekar Reddy	INTELLIGENT AGRICULTURE EQUIPMENT MANAGEMENT THROUGH IOT-BASED MONITORING AND CONTROL	Journal of Applied Engineering (JOAE)	Vol 10, Issue 6, ISSN 2348-4802	Feb-22
	Ch Varshini				
	B Jhansi				
	G Navya				

## Details of Faculty Publications

CAY (2024-2025)					
S. No	Name of the Author	Title of the manuscript	Name of the Journal	Volume / Issue No/ISSN No	Month / Year
1	Gorre Naga Jyothi Sree	OPTIMIZATION OF FRACTAL GRAPHENE ANTENNA WITH DUAL SIO2 LAYERS FOR HIGH-PERFORMANCE TERAHERTZ 6G COMMUNICATION	Diamond & Related Materials	152, 111920, ISSN: 9259635	February, 2025
2	A. Srinivas	INTEGRATED APPROACHES FOR AGRICULTURAL LANDSCAPE MONITORING AND PLANT DISEASE MANAGEMENT	2024 4th Asian Conference on Innovation in Technology (ASIANCON)	IEEE EXPLORE	January, 2025
3	V. Nagalakshmi	AN IOT APPROACH TO DESIGNING WEARABLE SAFETY DEVICES FOR WOMEN	International Journal of Data Science and IOT Management System	Vol 3, Issue 2, ISSN: 3068-272X	July, 2024
4	N. Jyothsna	EMBEDDED SYSTEMS AND IOT	Textbook-Scientific International Publishers	ISBN:978-93-6132-358-4	October, 2024
5	K. Karthik	INTEGRATING GPS AND GSM TECHNOLOGIES FOR ENHANCED WOMENS SAFETY: A FINGERPRINT-ACTIVATED DEVICE APPROACH	Res Militaris	Vol.15, Issue 3, ISSN 2265-6294	March, 2025
6	M. Aruna Jyothi	IOT-DRIVEN PRECISION AGRICULTURE USING COMMUNICATION TECHNOLOGIES FOR CROP QUALITY AND REAL-TIME ENVIRONMENTAL MONITORING	Res Militaris	Vol.15, Issue 3, ISSN 2265-6294	March, 2025



7	Gorre Naga Jyothi Sree	IOT BASED SEGREGATION OF GARBAGE	Res Militaris	Vol.15, Issue 3, ISSN 2265-6294	March, 2025
8	P. Siva Kalyani	AL BASED ACOUSTIC WAVE MONITORING OF RAIL DEFECTS LIKE CRACKS, FRACTURE AND PREDICTION FOR RAIL WEAR, QUALITY ALONG WITH OTHER PARAMETER	Res Militaris	Vol.15, Issue 3, ISSN 2265-6294	March, 2025
9	Gousiya Begum	ATMOSPHERIC POLLUTANTS MEASURING PREVENTING AND UPDATING TO IOT	Res Militaris	Vol.15, Issue 3, ISSN 2265-6294	March, 2025
10	A. Srinivas	SECURE AND ENERGY-EFFICIENT SMART HOME AUTOMATION: A USER BASED FINGERPRINT SECURITY SYSTEM	Res Militaris	Vol.15, Issue 3, ISSN 2265-6294	March, 2025
11	Y. M. M Veena	ADVANCED GPS TRACKING AND FOOD DISPENSOR SYSTEM FOR PETS	International Journal of Food and Nutritional Sciences	Volume 14, Issue 04, ISSN 2319 1775	April, 2025
12	M. Jayasri	GUARDIAN AIS FUTURE HOME PROTECTION USING IOT	International Journal of Food and Nutritional Sciences	Volume 14, Issue 04, ISSN 2319 1775	April, 2025
13	N. Pavithra	ADVANCED PUBLIC BUS TRANSPORT MANAGEMENT SYSTEM: AN INNOVATIVE SMART BUS CONCEPT	International Journal of Food and Nutritional Sciences	Volume 14, Issue 04, ISSN 2319 1775	April, 2025
14	G. Joy Sangeeth Raj	SMART STICK FOR VISUALLY IMPAIRED INDIVIDUALS	International Journal of Food and Nutritional Sciences	Volume 14, Issue 04, ISSN 2319 1775	April, 2025
15	Dr. M. Shoban	WEARABLE SENSOR WITH ARTIFICIAL INTELLIGENCE FOR PREVENTION OF FALLS IN ELDERLY PEOPLE	International Journal of Food and Nutritional Sciences	Volume 14, Issue 04, ISSN 2319 1775	April, 2025
16	G. Bhagya Lakshmi	WIFI BASED SECURED DATA TRANSMISSION AND RECEPTION	International Journal of Food and Nutritional Sciences	Volume 14, Issue 04, ISSN 2319 1775	April, 2025
17	G. Sujana	VEHICULAR ACCIDENT DETECTION AND ALERT GENERATION USING IOT	International Journal of Innovative Engineering and Management Research	Volume. 14, Issue 04, ISSN 2456 – 5083	April, 2025
18	Dr. V. Purandar Reddy	POT HOLE DETECTION USING RASBERRY PI	International Journal of Innovative Engineering and Management Research	Volume. 14, Issue 04, ISSN 2456 – 5083	April, 2025
19	M. Sridhar Reddy	A MULTIFUNCTIONAL VOICE-CONTROLLED SMART MIRROR FOR HOME AUTOMATION WITH ENHANCED SECURITY	International Journal of Innovative Engineering and Management Research	Volume. 14, Issue 04, ISSN 2456 – 5083	April, 2025

20	Dr. K. Purushotham Prasad	SHIFT A SECURITY HOME INTEGRATION FRAMEWORK FOR IOT	International Journal of Innovative Engineering and Management Research	Volume. 14, Issue 04, ISSN 2456 – 5083	April, 2025
21	V. Naga Lakshmi	A 360-DEGREE NAVIGATION SYSTEM USING A NOVEL MEAN-BASED ALGORITHM	International Journal of Engineering Research and Science and Technology	Vol.21, Issue 2, ISSN 2319-5991	April, 2025
22	Y. M. M Veena	AN ARDUINO-BASED SYSTEM FOR MEDICATION RESTOCKING	International Journal of Engineering Research and Science and Technology	Vol.21, Issue 2, ISSN 2319-5991	April, 2025
23	M. Jayasri	FUEL THEFT DETECTION USING AN ARDUINO	International Journal of Engineering Research and Science and Technology	Vol.21, Issue 2, ISSN 2319-5991	April, 2025
24	Dr. V. Purandar Reddy	IMPLEMENTING A CNN AND RASPBERRY PI SYSTEM TO SAFEGUARD CROPS AGAINST ANIMAL THREATS	International Journal of Engineering Research and Science and Technology	Vol.21, Issue 2, ISSN 2319-5991	April, 2025
25	Dr. M. Shobhan	INNOVATION OF A POWER SOURCE THAT CAN MONITOR THE SUNS PATH IN ORDER TO MAXIMIZE THE EFFICIENCY OF SOLAR PANELS	International Journal of Engineering Research and Science and Technology	Vol.21, Issue 2, ISSN2319-5991	April, 2025
26	N. Jyothsna	INTELLIGENT TIME TRACKING SYSTEM WITH FACIAL RECOGNITION THROUGH ITS ARDUINO UNO PLATFORM	International Journal of Applied Science Engineering and Management	Vol.19, Issue 2, ISSN 2454 - 9940	March, 2025
27	A. Srinivas	AMBULANCE NAVIGATION MADE EASIER WITH FINGERPRINT SENSOR INTEGRATION IN SMART HEALTHCARE EMERGENCY APP BY HIGHLIGHTING CRITICAL ROUTES	International Journal of Applied Science Engineering and Management	Vol.19, Issue 2, ISSN 2454 - 9940	March, 2025
28	Dr. K. Purushotham Prasad	PRECISION FARMING USING AN INTELLIGENT IRRIGATION SYSTEM	International Journal of Applied Science Engineering and Management	Vol.19, Issue 2, ISSN 2454 - 9940	March, 2025
29	K. Karthik	EXAMINING THE USE OF ARTIFICIAL INTELLIGENCE METHODS IN APPS THAT MAY IDENTIFY DEADLY CAR CRASHES	International Journal of Applied Science Engineering and Management	Vol.19, Issue 2, ISSN 2454 - 9940	March, 2025

30	G. Bhagya Lakshmi	A NEW TECHNOLOGY FOR THE ULTRA-DISABLED: THE EYE-CONTROLLED WHEEL CHAIR	International Journal of Applied Science Engineering and Management	Vol.19, Issue 2, ISSN 2454 - 9940	March, 2025
31	P. Siva Kalyani	POWER MANAGEMENT STREET LIGHT BY VEHICLES	International Journal of Applied Science Engineering and Management	Vol.19, Issue 2, ISSN 2454 - 9940	March, 2025
32	A. Dileep	BORDER ALERT SYSTEM: MAXIMIZING SAFETY FOR FISHERMAN	International Journal of Modern Electronics and Communication Engineering	Vol 13, Issue 2, ISSN 2321-2152	April, 2025
33	M. Sudhakar	UTILIZING THE INTERNET OF THINGS FOR INTELLIGENT CROPS AND NEXT-GENERATION SMART FORMING	International Journal of Modern Electronics and Communication Engineering	Vol 13, Issue 2, ISSN 2321-2152	April, 2025
34	G. Joy Sangeeth Raj	DUMB PERSON SIGN RECOGNITION AND VOICE TRANSLATION SYSTEM	International Journal of Modern Electronics and Communication Engineering	Vol 13, Issue 2, ISSN 2321-2152	April, 2025
35	B. Raju	RASPBERRY PI-POWERED FACE DETECTION LIGHT	International Journal of Modern Electronics and Communication Engineering	Vol 13, Issue 2, ISSN 2321-2152	April, 2025
36	N. Pavithra	THE FIELD OF NATURAL DISASTER MANAGEMENT ENCOMPASSES CONCEPTS SUCH AS RISK MIGRATION AND PRE- AND POST-DISASTER PLANNING	International Journal of Modern Electronics and Communication Engineering	Vol 13, Issue 2, ISSN 2321-2152	April, 2025
<b>CAY m1 (2023-2024)</b>					
S. No	Name of the Author	Title of the manuscript	Name of the Journal	Volume / Issue No/ISSN No	Month / Year
1	A. Srinivas	IOT AND SENSOR-BASED TECHNIQUE TO TRACK AND MONITOR THE WORK OF THE STREET SWEEPER	2023 4th International Conference on Smart Electronics and Communication (ICOSEC)	IEEEExplore	October, 2023
2	A. Srinivas	IOT BASED CHILD SAFETY MONITORING SYSTEM USING ARDUINO AND RASPBERRY PI	Journal of Non-Linear Analysis and Optimization	VOL.15, Issue 1, ISSN 1906-9685	March, 2024

3	Dr R Murugesan	COMPARATIVE STUDY OF IMPLEMENTATION OF VERY DEEP SUPER RESOLUTION NEURAL NETWORK AND BICUBIC INTERPOLATION FOR SINGLE IMAGE SUPER RESOLUTION QUALITY ENHANCEMENT	2023 IEEE 3rd International Conference on Applied Electromagnetics, Signal Processing, & Communication (AESPC)	IEEE Xplore	January, 2024
4	N. Pavithra	ELECTRONIC WARFARE IN RADAR SYSTEMS: A COMPARATIVE ANALYSIS OF ECM AND ECCM	International Journal of Data Science and IOT Management System	Vol 3, Issue 2, ISSN: 3068-272X	April, 2024
<b>CAY m2 (2022-2023)</b>					
S. No	Name of the Author	Title of the manuscript	Name of the Journal	Volume / Issue No/ISSN No	Month / Year
1	Dr R Murugesan	INVESTIGATION OF FUZZY AND SOM BASED SEGMENTATION OF HIGH-RESOLUTION SATELLITE IMAGES IN HSL COLOR SPACE FOR INFORMATION RETRIEVAL	2023 9th International Conference on Advanced Computing and Communication Systems (ICACCS)	IEEE Xplore	May, 2023
2	Dr R Murugesan	HSV MODEL BASED SKIN COLOR SEGMENTATION USING UNCOMPLICATED THRESHOLD AND LOGICAL AND OPERATION	2023 9th International Conference on Advanced Computing and Communication Systems (ICACCS)	IEEE Xplore	May, 2023
3	Mrs. G. Spica Sujeetha	PARKINSONS DISEASE DETECTION USING MODIFIED RESNEXT DEEP LEARNING MODEL FROM BRAIN MRI IMAGES	Soft Computing Journal	Vol. 27, Issue 16, ISSN 1433-7479	May, 2023
4	Dr. K. Purushotham Prasad	RESILIENT AND SUSTAINABLE FAULT MANAGEMENT APPROACHES FOR NEXT-GENERATION MEMORY ARCHITECTURES	American Journal of AI Cyber Computing Management	Vol 3, Issue 3, EISSN:3069-0102	May, 2023
5	N. Ramesh Kumar	A SCALABLE ACCURACY-CONTROLLABLE APPROXIMATE MULTIPLIER FOR LOW-POWER HIGH-SPEED APPLICATIONS	International Journal of Engineering Research and Science & Technology	Vol 18, Issue 4, ISSN 2319-5991	November, 2022
<b>CAY m3 (2021-2022)</b>					
S. No	Name of the Author	Title of the manuscript	Name of the Journal	Volume / Issue No/ISSN No	Month / Year
1	Dr. R. Murugesan	EFFECT OF CO-DIGESTION USING MUNICIPALLY SOLID WASTE WITH FOOD WASTE UNDER MECHANICAL LAB SCALE ANAEROBIC- INTERNATIONAL JOURNAL OF MECHANICAL ENGINEERING	International Journal of Mechanical Engineering	Vol. 7, Issue 2, ISSN 0974 5823	February, 2022

2	Mrs. G. Spica Sujeetha	A MULTI-OBJECTIVE FUZZY LOGIC BASED MULTI PATH ROUTING ALGORITHM FOR WSNS- MECS	International Journal of Wireless and Microwave Technologies	Vol. 12, Issue 1, ISSN 1759 0787	February, 2022
3	Dr. R. Murugesan	INTELLIGENT AGRICULTURE EQUIPMENT MANAGEMENT THROUGH IOT-BASED MONITORING AND CONTROL	Journal of Applied Engineering (JOAE)	Vol 10, Issue 6, ISSSN 2348-4802	February, 2022

## PART E: First Year faculty and financial Resources

(Data to be filled in for the first year course faculty and budget allocation and utilization)

### E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage=((NS1*0.8) + (NS2*0.2))/RF
2022-23(CAYm2)	660	33	34	22	96
2023-24(CAYm1)	900	45	38	30	81
2024-25(CAY)	1020	51	36	30	68

### 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	6800000	6713501	5600000	5594585	4100000	4024549	4200000	4165150
Library	800000	798410	650000	647540	550000	548550	500000	464011
Laboratory equipment	25600000	25561900	21500000	21301583	2800000	2770426	2400000	2365111
Teaching and non-teaching staff salary	220000000	219690526	195400000	195377128	172000000	171175196	165000000	162994289
Outreach Programs	5700000	5677190	4800000	4730992	3500000	3332808	550000	540500
R&D	3500000	3496500	3000000	2997500	2500000	2498500	2000000	1998500

Training, Placement and Industry linkage	6100000	6088320	5200000	5073600	4000000	3768752	450000	423395
SDGs	1200000	1123132	800000	797500	600000	585500	500000	449500
Entrepreneurship	700000	674531	500000	488717	400000	385500	300000	286000
JNTUH Affiliation, JNTUH Common Service Fee,	124640000	124528126	59610000	59331060	42748500	41586285	32584500	32101046
<b>Total</b>	<b>395040000</b>	<b>394352136</b>	<b>297060000</b>	<b>296340205</b>	<b>233198500</b>	<b>230676066</b>	<b>208484500</b>	<b>205787502</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 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	3500000	3499856	700000	696550	500000	499550	500000	493500
Software	144000	143809	120000	119424	32000	31895	20000	19264
SDGs	300000	299559	200000	199501	100000	98509	50000	49850
Support for faculty development	800000	799552	700000	699505	600000	598581	500000	497553
R & D	500000	498576	450000	449510	400000	399552	350000	349500
Industrial Training, Industry expert, Internship	1500000	1499501	1300000	1298690	1200000	1199501	900000	897845
Printng & Stationary, BOS, Internet Charges, Lab	9256000	9157768	9030000	8944501	7768000	7728205	6680000	6487107
<b>Total</b>	<b>16000000</b>	<b>15898621</b>	<b>12500000</b>	<b>12407681</b>	<b>10600000</b>	<b>10555793</b>	<b>9000000</b>	<b>8794619</b>