

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: 11410	Date of Submission: 31-12-2025

PART A- Profile of the Institute

A1. Name of the Institute: Chalapathi Institute of Engineering and Technology	
Year of Establishment : 2007	Location of the Institute: Lam
A2. Institute Address: Chalapathi Nagar, Lam, Guntur	
City: Guntur	State: Andhra Pradesh
Pin Code: 522034	Website: www.chalapathiengg.ac.in
Email: ciet07@rediffmail.com	Phone No (with STD Code): 0863-2524117
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Acharya Nagarjuna University	City: Guntur
State : Andhra Pradesh	
A4. Type of the Institution: Self-Supported Institute	
A5. Ownership Status: Self financing	

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

- No. of UG programs: 9
- No. of PG programs: 2

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	2009	--	Civil Engineering
2	Engineering & Technology	UG	Computer Science & Information Technology	2019	--	Computer Science and Information Technology
3	Engineering & Technology	UG	Computer Science and Engineering	2007	--	Computer Science and Engineering
4	Engineering & Technology	PG	Computer Science and Engineering	2012	--	Computer Science and Engineering
5	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2021	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
6	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence)	2020	--	Computer Science and Engineering (Artificial Intelligence)
7	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2021	--	Computer Science and Engineering (Cyber Security)
8	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2020	--	Computer Science and Engineering (Data Science)
9	Engineering & Technology	UG	Electrical & Electronics Engineering	2007	--	Electrical and Electronics Engineering
10	Engineering & Technology	UG	Electronics & Communication Engineering	2007	--	Electronics and Communication Engineering
11	Engineering & Technology	PG	VLSI & Embedded Systems Design	2012	--	Electronics and Communication Engineering

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

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

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

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

No Record

PART-B: Program information

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

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPET AUTHORITY APPROVAL DETA
1	Electronics & Communication Engineering	UG	2007 / --	60	Yes	2019	180	2019	Approved by AIC

Sanctioned Intake for Last Five Years for the VLSI & Embedded Systems Design

Academic Year	Sanctioned Intake
2025-26	180
2024-25	180
2023-24	180
2022-23	180
2021-22	180
2020-21	180

List of the Allied Departments/Cluster and Programs:

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

A. Name of the HoD :	Dr. K VENKATARAMARAO
B. Nature of appointment:	Regular
C. Qualification:	M.Tech and Ph.D.

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	180	180	180	180	180	180	180
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	89	179	185	190	179	192	172
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	21	26	25	19	17	26

N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	0	0	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	89	200	211	215	198	209	198

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)	180	89	0	49.44
2024-25 (CAYm1)	180	179	0	99.44
2023-24 (CAYm2)	180	185	0	102.78

Average [(ER1 + ER2 + ER3) / 3] = 83.89 ≈ 17.00

B5. Success Rate of the Students in the Stipulated Period of the Program

Table No.B5.1: The success rate in the stipulated period of a program.

Item	(2021-22) LYG	(2020-21) LYGM1	(2019-20) LYGM2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	199.00	209.00	206.00
B=No. of students who graduated from the program in the stipulated course duration	143.00	144.00	119.00
Success Rate (SR)= (B/A) * 100	71.86	68.90	57.77

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 66.18

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)	5.69	5.61	5.91
Y=Total no. of successful students	164.00	179.00	183.00
Z=Total no. of students appeared in the examination	179.00	185.00	190.00
API [X*(Y/Z)]	5.21	5.43	5.69

Average API[(AP1+AP2+AP3)/3] : 5.44

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	6.10	6.21	5.92
Y=Total no. of successful students	197.00	203.00	192.00
Z=Total no. of students appeared in the examination	205.00	208.00	195.00
API [X * (Y/Z)]	5.86	6.06	5.83

Average API [(AP1 + AP2 + AP3)/3] : 5.92

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)	6.18	6.16	6.30
Y=Total no. of successful students	195.00	189.00	190.00

Z=Total no. of students appeared in the examination	203.00	192.00	195.00
API [X*(Y/Z)]:	5.94	6.06	6.14

Average API [(AP1 + AP2 + AP3)/3] : 6.05

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	199.00	197.00	206.00
X=No. of students placed	115.00	111.00	106.00
Y=No. of students admitted to higher studies	15.00	17.00	14.00
Z= No. of students taking up entrepreneurship	1.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	65.83	64.97	58.25

Average Placement Index = (P_1 + P_2 + P_3)/3: 63.02 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
1	Dr. K VENKATARAMARAO	XXXXXXX37A	M.Tech and Ph.D.	PONDICHERRY UNIVERSITY	WIRELESS COMMUNICATION	05/06/2017	8.6	Associate Professor	Professor	23/05/2022
2	RAVI SANKAR CHANDU	XXXXXXX56G	M.E.	BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, Pilani	ELECTRONICS AND CONTROL SYSTEMS	04/07/2024	1.5	Assistant Professor	Assistant Professor	
3	Dr. SHAFI SHAHSavar MIRZA	XXXXXXX44P	M.Tech and Ph.D.	ALIGARH MUSLIM UNIVERSITY	BIOMEDICAL SIGNAL PROCESSING	08/06/2020	5.6	Professor	Professor	08/06/2020
4	Dr. NALLURI PROPHESS RAJ KUMAR	XXXXXXX60C	M.Tech and Ph.D.	KARUNYA UNIVERSITY	WIRELESS SENSOR NETWORK BASED IOT	04/07/2022	3.5	Assistant Professor	Associate Professor	11/07/2022
5	Dr. MERIGA SIRISHA	XXXXXXX14B	M.Tech and Ph.D.	NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR	FERRO-ELECTRIC GATE TUNNEL FET	06/01/2014	11.7	Assistant Professor	Associate Professor	23/08/2024
6	Dr. KATI PRAVEENA	XXXXXXX41F	M.Tech and Ph.D.	VIGNAN's DEEMED TO BE UNIVERSITY	AIR-BORNE SYNTHETIC APERTURE RADAR APPLICATIONS	03/07/2023	2.2	Assistant Professor	Associate Professor	12/08/2024
7	Dr. TIPPIREDDY SRINIVAS REDDY	XXXXXXX23N	M.Tech and Ph.D.	NATIONAL INSTITUTE OF TECHNOLOGY PATNA	UNDERWATER WIRELESS SENSOR NETWORKS	06/07/2022	3.5	Assistant Professor	Associate Professor	14/07/2025
8	Dr. JAMMULA LAKSHMI NARAYANA	XXXXXXX36A	M.Tech and Ph.D.	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD	MICROWAVE TRANSMISSION WITH ML	04/07/2024	0.11	Professor	Professor	04/07/2024
9	Dr. CHINMAYAKUMAR PRADHAN	XXXXXXX70N	M.Tech and Ph.D.	JODHPUR NATIONAL UNIVERSITY	ELECTRICAL ENGINEERING	06/08/2018	6.10	Associate Professor	Professor	23/05/2022

10	Dr. MERIGALA RAJANI DEVI	XXXXXXX13F	M.Tech and Ph.D.	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA	WIRELESS COMMUNICATIONS	06/07/2022	2.11	Associate Professor	Associate Professor	06/07/2022
11	MARADANI SUBRAHMANYESWARA RAO	XXXXXXX92C	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD	SYSTEM AND SIGNAL PROCESSING	06/01/2015	9.5	Assistant Professor	Assistant Professor	
12	Dr. DURGA PRASAD KOLLURU	XXXXXXX76D	M.Tech and Ph.D.	RAYALASEEMA UNIVERSITY	MEDICAL IMAGING AND COMPUTER AIDED DIAGNOSIS (CAD) SYSTEM	08/06/2020	5.6	Assistant Professor	Associate Professor	30/12/2025
13	BUSANI VENKATESWARA RAO	XXXXXXX77J	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA	DIGITAL ELECTRONICS AND COMMUNICATION SYSTEMS	04/06/2011	14.5	Assistant Professor	Assistant Professor	
14	KHAGGA VIJAYA LAKSHMI	XXXXXXX43N	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA	EMBEDDED SYSTEMS	01/06/2015	10.6	Assistant Professor	Assistant Professor	
15	ATLURI MANJUSHA	XXXXXXX38J	M.Tech	IIT MADRAS	ELECTRICAL ENGINEERING	05/03/2020	5.9	Assistant Professor	Assistant Professor	
16	MALLAPARAPU KOTESWARA RAO	XXXXXXX15G	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA	DIGITAL ELECTRONICS AND COMMUNICATION SYSTEMS	02/06/2016	9.6	Assistant Professor	Assistant Professor	
17	AALA SURESH	XXXXXXX09M	M.Tech	KONERU LAKSHMAIAH EDUCATION FOUNDATION	EMBEDDED SYSTEMS	07/01/2016	9.11	Assistant Professor	Assistant Professor	
18	GADE CHANDRA REDDY	XXXXXXX85H	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD	EMBEDDED SYSTEMS	19/07/2021	4.5	Assistant Professor	Assistant Professor	
19	AMBATI SOUJANYA	XXXXXXX01D	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA	VLSI AND EMBEDDED SYSTEMS	04/10/2017	8.2	Assistant Professor	Assistant Professor	
20	JOREPALLI ASHA	XXXXXXX98N	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA	VLSI DESIGN	07/05/2021	4.7	Assistant Professor	Assistant Professor	
21	GARIKAPATI HIMABINDU	XXXXXXX10A	M.Tech	ACHARYA NAGARJUNA UNIVERSITY	VLSI & EMBEDDED SYSTEM DESIGN	04/07/2022	3.5	Assistant Professor	Assistant Professor	
22	PEDALANKA SWAPNA	XXXXXXX13K	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA	VLSI	04/07/2022	3.5	Assistant Professor	Assistant Professor	
23	VAMSHIKRISHNA NIMMAGADDA	XXXXXXX48R	M.Tech	KONERU LAKSHMAIAH EDUCATION FOUNDATION	COMMUNICATION AND RADAR SYSTEMS	06/07/2022	3.5	Assistant Professor	Assistant Professor	
24	RAYANA LAKSHMIPARVATHI	XXXXXXX89G	M.Tech	ACHARYA NAGARJUNA UNIVERSITY	VLSI & EMBEDDED SYSTEM DESIGN	04/07/2022	3.5	Assistant Professor	Assistant Professor	

25	GANDHAM LAKSHMI SOWJANYA	XXXXXXX01E	M.Tech	ACHARYA NAGARJUNA UNIVERSITY	VLSI & EMBEDDED SYSTEM DESIGN	04/07/2022	3.5	Assistant Professor	Assistant Professor	
26	PATHAN AMEENA	XXXXXXX98F	M.Tech	ACHARYA NAGARJUNA UNIVERSITY	VLSI & EMBEDDED SYSTEM DESIGN	04/07/2022	3.5	Assistant Professor	Assistant Professor	
27	KANTHETI BRAHMENDRA	XXXXXXX63J	M.Tech	SATHYABHAMA UNIVERSITY	EMBEDDED SYSTEMS	06/07/2022	3.5	Assistant Professor	Assistant Professor	
28	KOVURI SIVA KUMARI	XXXXXXX54C	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA	VLSI SYSTEM DESIGN	06/07/2022	3.5	Assistant Professor	Assistant Professor	
29	NADENDLA PRASANTHI	XXXXXXX08Q	M.Tech	ACHARYA NAGARJUNA UNIVERSITY	COMMUNICATION AND SIGNAL PROCESSING	03/07/2023	2.5	Assistant Professor	Assistant Professor	
30	PRATHIKANTAM VIKRAM RAJU	XXXXXXX14L	M.Tech	ACHARYA NAGARJUNA UNIVERSITY	VLSI & EMBEDDED SYSTEM DESIGN	06/07/2023	2.5	Assistant Professor	Assistant Professor	
31	MADDU KARTHIK	XXXXXXX40C	M.Tech	ACHARYA NAGARJUNA UNIVERSITY	COMMUNICATION ENGINEERING AND SIGNAL PROCESSING	20/06/2024	1.6	Assistant Professor	Assistant Professor	
32	DUGGIRALA ASHA	XXXXXXX40C	M.Tech	ACHARYA NAGARJUNA UNIVERSITY	COMMUNICATION ENGINEERING AND SIGNAL PROCESSING	07/07/2023	2.5	Assistant Professor	Assistant Professor	
33	MANNEM TEJESWARA KUMAR	XXXXXXX93C	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD	ELECTRONICS AND COMMUNICATION ENGINEERING	07/07/2025	0.5	Assistant Professor	Assistant Professor	
34	AVULA PRIYATHAM	XXXXXXX40Q	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTHAPUR	VLSI	04/07/2022	2.11	Assistant Professor	Assistant Professor	
35	Dr. Sk. MULLA SHABBER	XXXXXXX24J	M.Tech and Ph.D.	VELLORE INSTITUTE OF TECHNOLOGY, AP	MACHINE LEARNING	01/07/2025	0.6	Associate Professor	Associate Professor	01/07/2025
36	KHAMBHAMPATI LAKSHMANRAO	XXXXXXX14R	M.Tech	ACHARYA NAGARJUNA UNIVERSITY	VLSI & EMBEDDED SYSTEM DESIGN	01/07/2025	0.5	Assistant Professor	Assistant Professor	
37	KATHI TEJASWINI	XXXXXXX10G	M.Tech	ACHARYA NAGARJUNA UNIVERSITY	VLSI & EMBEDDED SYSTEM DESIGN	01/07/2025	0.5	Assistant Professor	Assistant Professor	
38	DAGGUBATI SASIKANTH	XXXXXXX79B	M.Tech	SATHYABHAMA UNIVERSITY	VLSI DESIGN	01/07/2025	0.5	Assistant Professor	Assistant Professor	
39	Dr. YARRA NAGASUBRAHMANYA VAMSI MOHAN	XXXXXXX66D	M.Tech and Ph.D.	ANNA UNIVERSITY	FREE SPACE OPTICAL COMMUNICATION	06/07/2023	2.5	Assistant Professor	Associate Professor	07/07/2025
40	Dr. NELATURI NANDA PRAKASH	XXXXXXX90P	M.Tech and Ph.D.	KONERU LAKSHMAIAH EDUCATION FOUNDATION	BIOMEDICAL IMAGE PROCESSING	06/07/2022	3.5	Assistant Professor	Associate Professor	19/11/2024
41	Dr. DARAM NAGABHUSHAN BABU	XXXXXXX50P	M.Tech and Ph.D.	KONERU LAKSHMAIAH EDUCATION FOUNDATION	WIRELESS MESH NETWORKS	19/07/2021	3.11	Assistant Professor	Associate Professor	25/04/2023

42	PALADUGU SIVA KRISHNA	XXXXXXX78H	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD	EMBEDDED SYSTEMS AND VLSI DESIGN	04/07/2022	3.5	Assistant Professor	Assistant Professor	
43	SAPA SRINIVAS	XXXXXXX11G	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA	VLSI AND EMBEDDED SYSTEMS	03/07/2023	2.5	Assistant Professor	Assistant Professor	
44	MAKKENA ANIL	XXXXXXX17L	M.Tech	LOVELY PROFESSIONAL UNIVERSITY	ELECTRONICS AND COMMUNICATION ENGINEERING	15/07/2024	1.5	Assistant Professor	Assistant Professor	
45	MANNEM KODANDA RAMU	XXXXXXX83C	M.Tech	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD	POWER ELECTRONICS	18/07/2022	3.5	Assistant Professor	Assistant Professor	

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

C2. Student-Faculty Ratio (SFR)

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

UG1=1st UG program

UGn=nth UG program

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

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

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

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

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year

B= No. of Students in PG 2nd year

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

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

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

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

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

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

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	198	198	198
UG1.C	198	198	198
UG1.D	198	198	198
UG1: Electronics & Communication Engineering	594	594	594
PG1.A	18	18	18
PG1.B	18	18	18
PG1: VLSI & Embedded Systems Design	36	36	36
DS=Total no. of students in all UG and PG programs in the Department	630	630	630
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= 630	S2= 630	S3= 630
DF=Total no. of faculty members in the Department	34	37	35
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= 34	F2= 37	F3= 35
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= 18.53	SFR2= 17.03	SFR3= 18.00
Average SFR for 3 years	SFR= 17.85		

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	$FQ = 2.5 * [(10X + 4Y) / RF]$
2025-26(CAY)	7	27	31.00	14.35
2024-25(CAYm1)	9	28	31.00	16.29
2023-24(CAYm2)	6	29	31.00	14.19

C4. Faculty Cadre Proportion

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

Table No.C4.1: Faculty cadre proportion details.

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	3.00	2.00	7.00	5.00	21.00	27.00
2024-25	3.00	4.00	7.00	5.00	21.00	28.00
2023-24	3.00	3.00	7.00	3.00	21.00	29.00
Average	RF1=3.00	AF1=3.00	RF2=7.00	AF2=4.33	RF2=21.00	AF2=28.00

C5. Visiting/Adjunct Faculty/Professor of Practice

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

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	MAKKENA ANIL	SENIOR PHYSICAL DESIGN ENGINEER	SMARTSOC SOLUTIONS PRIVATE LIMITED	VLSI, EMBEDDED SYSTEMS	60.00
2	MANNEM KODANDA RAMU	PRODUCTION ENGINEER	RR INDUSTRIES	ANTENNAS and APPLICATIONS	55.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	MANNEM KODANDA RAMU	PRODUCTION ENGINEER	RR INDUSTRIES	RADAR SYSTEMS	52.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	MANNEM KODANDA RAMU	PRODUCTION ENGINEER	RR INDUSTRIES	ANTENNAS AND WAVE PROPAGATION	58.00

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	19	14	2

2	No. of peer reviewed conference papers published	3	2	20
3	No. of books/book chapters published	2	2	1

C7. Sponsored Research Project

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.K.V.Ramarao		ECE	IEEE RAS Start up	IEEE	1 year	0.42
Dr.K.V.Ramarao		ECE	IEEE Robotic and automation Start up	IEEE	1 year	1.09
K Sri Gana Rupeesh		ECE	AVINYA(THE-LOOP)	MSME	2 years	7.00
Dr.K.V.Ramarao	Dr. NALLURI PROPHESS RAJ KUMAR	ECE	IEEE Comsoc	IEEE	1 year	0.45
						Amount received (Rs.):8.96

(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. M Rajni Devi	Dr.K.V.Ramarao	ECE	IEEE Student branch	IEEE	1 year	2.87
						Amount received (Rs.):2.87

(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. M Rajni Devi	Dr.K.V.Ramarao	ECE	IEEE Comsoc	IEEE	1 year	0.33
						Amount received (Rs.):0.33

Total Amount (Lacs) Received for the Past 3 Years: 12.16**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. TIPPIREDDY SRINIVASA REDDY	Dr. NELATURI NANDA PRAKASH	ECE	Sensors Networks	Corporate Innovative technologies PVT.LTD	2 year	6.40
						Amount received (Rs.):6.40

(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.K.V.Ramarao	M.Koteswara rao	ECE	Cold storage IoT Supporting system	Bhargav Tech Innovations pvt.ltd	1 year	2.90
						Amount received (Rs.):2.90

(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. MIRZA SHAFI SHAHSAVAR	Dr. NALLURI PROPHESS RAJ KUMAR	ECE	Agricultural drone	Innovative Technologies, Vijayawada	1 year	2.80
						Amount received (Rs.):2.80

Total amount (Lacs) received for the past 3 years: 12.10**Note*:**

- Only consultancy projects will be considered. Infrastructure-based projects will not be considered here.

C9. Institution Seed Money or Internal Research Grant to its Faculty for Research Work

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr.K.V.Ramarao	IEEE Robotic and automation, IEEE RAS Start up	1 Year	0.14	0.14	IEEE Robotic and automation
Dr. MIRZA SHAFI SHAHSAVAR	Cold storage IoT Supporting system	1 year	0.12	0.12	Cold storage IoT Supporting system
Dr. NALLURI PROPHESS RAJ KUMAR	Cold storage IoT Supporting system	1 year	0.12	0.12	Cold storage IoT Supporting system
Dr. MIRZA SHAFI SHAHSAVAR	IEEE Membership	1 year	0.03	0.03	IEEE Membership
Dr. NALLURI PROPHESS RAJ KUMAR	IEEE Membership	1 year	0.03	0.03	IEEE Membership
K Sri Gana Rupeesh	AVINYA(THE-LOOP	2 years	0.57	0.57	AVINYA(THE-LOOP
T. Srinivasa Reddy	A high efficient Exponentially Tapered Vivaldi antenna with DGS for Ultra-wide Band Applications	1 year	0.02	0.02	Paper publication
Dr. J. Lakshmi Narayana	IOT Controlled Charger For Electric Vehicles	1 year	2.71	2.71	Patent grant
			Amount received (Rs.): 3.74		

(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. M Rajni Devi	IEEE Student branch Establishment	1 year	0.28	0.28	IEEE Student branch
Dr.K.V.Ramarao	Wavelet transform based image enhancement: A noise reduction	1 year	0.02	0.02	Paper publication
Dr Nalluri Prophess Rajkumar	Optimal relay nodes placement with game theory optimization for Wireless Sensor Networks	1 year	0.43	0.43	Paper publication
			Amount received (Rs.): 0.73		

(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 J Lakshmi Narayana	Optimization of RF MEMS Switch Using Linear Vector Quantization Network	1 year	0.03	0.03	Paper published
Dr Mirza Shafi Shahsavar	Sensor based traffic signal pre-emption for emergency vehicles using efficient shortrange	1 year	0.05	0.05	Paper published
Dr.K.V.RAMA RAO	Solar power touch free sanitizer dispenser with dual dispensing tan	1 year	0.02	0.02	Patent Grant
Dr Mirza Shafi Shahsavar	Sensor Data Fusion Machine learning based electric energy usage monitoring system for Households	1 year	0.68	0.68	Patent published
			Amount received (Rs.): 0.78		

Total amount (Lacs) received for the past 3 years : 5.25

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 1	30	Lenovo Think Centre systems	36 Hours / WE	N.Abhishek	Technician	B.Tech
2	COMPUTER LAB 2	66	Lenovo Think Centre systems	36 Hours / WE	V. VENU BABU	Technician	Diploma
3	ELECTRONIC DEVICES AND CIRCUITS LAB	30	CRO, Function generator, Regulated power supply	36 Hours / WE	G.THIRUPATHI	Technician	Diploma, B.Tec
4	ANALOG AND DIGITAL CIRCUITS LAB	30	DSO's, Function generator, Modulation kits	18 Hours / WE	G.THIRUPATHI	Technician	Diploma, B.Tec
5	MICROWAVE AND OPTICAL	30	SWR Meters, Klystron Power Supply Meters, Microwave Power Meters, Oscilloscope, Vector Network Analyzer	18 Hours / WE	SOMARAJU S	Technician	B.Tech
6	DIGITAL LOGIC DESIGN LAB	30	Digital trainer Kits, digital IC tester	36 Hours / WE	SK. YASIR	Technician	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	COMPUTER LAB 1 & 2	• UPS is available to regulate the power supply and backup. • Electrical earth and MCB protection are available. • Fire extinguisher is available in the laboratories. • General rules of conduct are displayed in the laboratories. • Phones are not allowed in the lab. • First aid kit, medicines are available at Department office. • Internet speed 1GHz (shared link)
2	ELECTRONIC DEVICES AND CIRCUITS LAB	• Fire extinguisher is available in the laboratories. • Electrical earth and MCB protection provided. • General rules of conduct are displayed in the laboratories. • Phones are not allowed in the lab. • First aid kit, medicines are available at Department office.

3	ANALOG AND DIGITAL CIRCUITS LAB	<ul style="list-style-type: none"> • Electrical earth and MCB protection provided to all the laboratories. • Fire extinguisher is available. • General rules of conduct are displayed in the laboratories • Phones are not allowed in the lab. • First aid kit, medicines are available at Department office.
4	MICROWAVE AND OPTICAL COMMUNICATION LAB / PROJECT LAB	<ul style="list-style-type: none"> • Electrical earth and MCB protection provided to all the laboratories. • Fire extinguisher is available. • General rules of conduct are displayed in the laboratories. • First aid kit, medicines are available at Department office. • Phones are not allowed in the lab. • Wi-Fi is available in project laboratory.
5	DIGITAL LOGIC DESIGN LAB	<ul style="list-style-type: none"> • Fire extinguisher is available in the laboratories. • Electrical earth and MCB protection provided. • General rules of conduct are displayed in the laboratories. • Phones are not allowed in the lab. • First aid kit, medicines are available at Department office.

D3. Project Laboratory/Research Laboratory

7.5. Project Laboratory/Research Laboratory /Centre of Excellence (20)

(Provide details of laboratories for supporting projects, research, Centre of Excellence, innovation, and startups etc. Please do not give duplicate data from the

Table No. 7.5.1: Details of Laboratory.

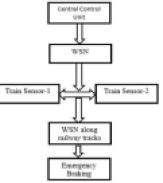
S. No	Name of the Laboratory/Centre of Excellence
1	JUNIPER NETWORKS Equipment: Apple M4 Mac Mini 16 GB RAM 256 GB SSD 24" Lenovo Monitors -21nos, Newline 75" Smart TV-1no, Juniper Fire wall -1no, Manageable Switch 1no, Wi-Fi Access points 2nos, 20kva Power plus UPS -1no, Internet speed 1GHz (shared link)
2	QNX LAB Equipment: Lenovo Desktop core i5, 16 GB RAM 480 GB SSD hard disc 19" Monitor Lenovo, Internet speed 1GHz (shared link) Hardware: Raspberry Pi Board, MicroSD card, Power Adapter, HDMI Cable, Ethernet, Wires, bread board
3	CADENCE VLSI DESIGN LAB Equipment: desktop system core i5, 16 GB RAM 512 SSD hard disc Dell 19" Monitor Dell Keyboard & Mouse-10 nos Cadence VLSI Design Lab university standard bundle ST3Y10L (10 User License), Internet speed 1GHz (shared link)
4	R&D LAB Equipment: Intel i5, 16GB RAM 500 GB HARDISK Acer 24" Monitor HP Keyboard and Mouse 12nos, Internet speed 1GHz (shared link)

7.5.2 List of Projects in the Academic Year 2024– 25 (Best five projects)

S. No	Name of the Student(s) and Register No	Title of the Project	Attainment of POs & PSOs	Result
1	A. SWAPNA (Y21ECE005) G. VIJAYSAGAR (Y21ECE038) G. DURGA PRASAD (Y21ECE046) J.V. RAMANA (Y21ECE056)	Deep fake Detection on social media: Leveraging Deep Learning and Fast Text Embedding's for Identifying Machine-Generated Tweets	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PSO1, PSO2	Description: 1. This project detects machine generated tweets on social media using fast text embeddings and deep learning techniques. 2. The project analyses social media text data to distinguish human and machine generated tweets using deep learning models
2	B. SWATHI (Y21ECE011) E. NAVNEENA (Y21ECE030) G. LAVANYA (Y21ECE047) D. MOHAN (Y21ECE026)	High Speed Area Efficiency MSI Architecture of Three Operand Binary	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PSO1, PSO2	Description: 1. This project designs a high speed, area efficient. 2. MSI-based architecture for 3 operand binary operations, optimized for improved performance and reduced hardware complexity.
3	G. GAYATRI (Y21ECE034) CH.V. MOKSHGNA (Y21ECE020) J. VIJAYMOHAN (Y21ECE057) B. GOWRI SHANKAR (Y21ECE012)	Energy Efficient Face Recognition Authentication Using Human Detection IoT Model	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PSO1, PSO2	Description: 1. This project implements an energy efficient face recognition-based authentication system using an IoT enabled human detection model for secure and reliable access control

4	B.V. KARTHIKREDDY (Y21ECE002) VENKATESWARLU (Y21ECE053) LAKSHMAIAH (Y21ECE058) J. BALA (Y21ECE061) G. GOPICHAND (Y21ECE042)	Solar Energy Charging Station for Electric Vehicles Using Wi-Fi	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PSO1, PSO2	Description: 1. This project develops solar powered electric vehicle charging station with Wi-Fi 2. Connectivity monitoring, control and efficient energy management.
5	G. SRILAKSHMI (Y21ECE032) B. HAREESWAR REDDY (Y21ECE013) K. VISHNU MURTHY (Y21ECE065) E. KARTHIK (Y21ECE031)	VLSI Based Multiplier and Accumulator Unit Using Parallel Vedic Multiplier	PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PSO1, PSO2	Description: 1. This project designs VLSI based multiplier and accumulator unit using parallel Vedic multiplier to achieve high speed and improved computation efficiency.

7.5.3 List of Projects in the Academic Year 2023-24 (Best five projects)

Sl. No	Name of the Student(s) and register no	Title of the Project	Attainment of PoS & PSOs	Result
1	G. DEEPTHI (Y20ECE064) CH.S. NARAYANA (Y20ECE040) B. SURESH (Y20ECE013) CH. AKSHAY (Y20ECE034)	An energy-efficient truncation and rounding based scalable approximate multiplier	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PO12, PSO1, PSO2	Description: 1. This project designs an energy-efficient approximate multiplier that uses truncation and rounding to reduce power, area, and delay while maintaining acceptable accuracy for error-tolerant applications
2	D. B.V. LAKSHMI (Y20ECE046) D.SIVANAGIREDDY (Y20ECE052) A. HARI KRISHNA (Y20ECE006) CH. ANUSHA (Y20ECE036)	A wireless system towards gait detection in stroke patients	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PO12, PSO1, PSO2	Description: 1. This project designs a wireless gait detection system for stroke patients. It uses wearable sensors and wireless communication to monitor and analyze walking patterns in real time, aiding rehabilitation, progress tracking, and clinic assessment.
3	E. DIVYA (Y20ECE055) G. BHAVANA (Y20ECE056) G.L.SAI (Y20ECE062) CH. KAVYA (Y20ECE037)	WSN based identification system for train collision avoidance	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PO12, PSO1, PSO2	Description: 1. This project designs a WSN-based train collision avoidance identification system. It employs wireless sensor networks to monitor train location and movement in real time, enabling early detection of potential collisions and enhancing railway safety. 

4	E. SANKAR (Y20ECE53) K. BROWNI (Y20ECE030) A. SEETHAIAH (Y20ECE007) H CH. HARIKA (Y20ECE038)	IoT Based Online Traffic Congestion Monitoring and Management System	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PO12 PSO1, PSO2	Description: 1. This project designs an IOT-based online traffic congestion monitoring and management system. It collects real-time data from connected sensors and devices to monitor traffic conditions, identify congestion, and support efficient traffic control and route management. RESULT:  
5	B. M. LAKSHMI (L21ECE195) B.B.J. PRAKASH (Y20ECE027) A. KIRAN (Y20ECE001) A. PRASANTH (Y20ECE003)	Modified CLCG method and its VLSI Architecture for pseudo-random bit generator	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PO12, PSO1, PSO2	Description: 1. This project designs a modified CLCG method with VLSI architecture. It is hardware-efficient and produces high-quality random sequences with low power, reduced area, and fast operation, suitable for cryptography and secure communication applications.

7.5.4 List of Projects in the Academic Year 2022-23 (Best five projects) Outcome.

S.No	Name of the Student(s) and register no	Title of the Project	Attainment of POs & PSOs	Result
1	C.MEENAKSHI (L20ECE137) G. SAI KEERTHI (Y19ECE124) M.PRADEEP KUMAR REDDY (L20ECE1379)	Revolutionizing campus communication: A modern intercom system for college	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PO12, PSO1, PSO2	Description: 1. This project designs a modern intercom system for college. It enables seamless and real-time communication across the campus, connecting classrooms, offices, and administrative areas to improve coordination, efficiency, and safety.

<p style="text-align: right;">Description:</p> <p>1. This project designs a Rough Terrain Beetle Robot is a bio-inspired robot designed to move efficiently over uneven and challenging surfaces, using legged locomotion for stability and adaptability, making it ideal for exploration, surveillance, and search-and-rescue tasks.</p>				
2	K. GAYATHRI (Y19EC1250) K. MANIKANTA (Y19EC1251) J. ASHOKREDDY (Y19EC1249)	Rough Terrain beetle robot	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PO12, PSO1, PSO2	
3	A. SRIVENI (Y19ECE1206) V. CHAITANYA (Y19ECE1216) G. SATISH KUMAR (Y19EC1243)	Automated Cleaning and Mopping with Fire Fighting Robot	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PO12, PSO1, PSO2	<p style="text-align: right;">Description:</p> <p>1. This project designs an Automated Cleaning and Mopping with Fire Fighting Robot is a smart robotic system that autonomously performs floor cleaning and mopping while detecting and controlling fires, providing both maintenance and safety in homes, offices, and industrial spaces.</p>
4	C. BHUVANESWARI (Y19EC1219) K. SUSMITHA (Y19EC1255) I.RAM CHOWDARY (Y19EC1247)	Skin cancer detection using Deep learning	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PO12, PSO1, PSO2	<p style="text-align: right;">Description:</p> <p>1. This project designs a Skin Cancer Detection System using Deep Learning is an intelligent system that analyses skin images to detect and classify cancerous lesions accurately.</p>
5	L.ANUPAMA (L20ECE1237) B. SRIVANI (Y19EC1211) M.PRAVEEN RAJU (L20EC1378)	Novel Wideband micro-strip monopole antenna designs for Wi-Fi/ LTE /WiMAX devices	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO10, PO11, PO12, PSO1, PSO2	<p style="text-align: right;">Description:</p> <p>1. This project designs a Novel Wideband Micro Strip Monopole Antenna is a compact antenna design optimized for Wi-Fi, LTE, and WiMAX devices, providing wideband performance, high efficiency, and stable radiation patterns for reliable wireless communication across multiple frequency bands.</p>

7.5.5 List of research projects carried out by the faculty in the Academic Year 2025 – 26

S. No	Name of the Project	Name of the Faculty with Designation
1	IEEE Comsoc	Dr. K. V. Ramarao (Professor)
2	Cold storage IoT Supporting system	Dr. T. SRINIVASA REDDY (Associate Professor)
3	Cold storage IoT Supporting system	Dr. N. NANDA PRAKASH (Associate Professor)
4	Apparatus for Predictive Maintenance in Industrial IoT using AI and Sensors	Dr. K. V. Ramarao (Professor)

7.5.6 List of research projects carried out by the faculty in the Academic Year 2024 - 25

S. No	Name of the Project	Name of the Faculty with Designation
1	IEEE Robotic and automation, IEEE RAS Start up	Dr. K. V. Ramarao (Professor)
2	Cold storage IoT Supporting system	Dr. SHAFI SHAHSAVARMIRZA (Professor)
3	Cold storage IoT Supporting system	Dr. N. P. RAJ KUMAR (Associate Professor)
4	A highly efficient Exponentially Tapered Vivaldi antenna with DGS for Ultra-wide Band Applications	T. SRINIVASA REDDY (Associate Professor)

7.5.7 List of research projects carried out by the faculty in the Academic Year 2023 - 24

S. No	Name of the Project	Name of the Faculty with Designation
1	Wavelet transform based image enhancement: A noise reduction.	Dr. K. V. Ramarao (Professor)
2	Adaptive beamforming for cognitive radio based wireless communication systems	Dr. SHAFI SHAHSAVARMIRZA (Professor)
3	Fog-IoT Framework Deployment for Handling Performance Metrics on an Assortment of Internet of Things Devices	Dr. N. P. RAJ KUMAR (Associate Professor)
4	Prediction of skin cancer in real time using machine learning and a mobile app hosted in the cloud	K. Durga Prasad (Associate Professor)
5	Histopathological images are used to automatically identify various types of lung cancer using a lightweight, end-to-end CNN approach	Dr. SHAFI SHAHSAVARMIRZA (Professor)

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)	780	39	26	4	55
2024-25(CAYm1)	780	39	42	5	89
2025-26(CAY)	1170	58	50	6	71

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

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

Items	Budgeted in 2025-2026	Actual Expenses in 2025-2026 till	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
Infrastructure Built-Up	165000000	108006525	140000000	130917000	67000000	66500273	41200000	41024966

Library	850000	371250	500000	450000	15000	13002	10000	0
Laboratory equipment	4500000	6270688	7650000	7600834	3600000	3529027	6300000	6286913
Teaching and non-teaching staff salary	85000000	54380940	70000000	65916292	55000000	54609351	53600000	53509725
Outreach Programs	500000	391050	500000	474000	250000	244000	330000	315000
R&D	380000	179025	250000	217000	135000	129000	160000	150000
Training, Placement and Industry linkage	16000000	7670975	10000000	9298152	4500000	4470088	3000000	2880577
SDGs	2000000	1588587	2000000	1925561	1400000	1385923	1900000	1852556
Entrepreneurship	150000	90750	150000	110000	120000	100000	100000	98000
Others, specify	94000000	73460630	94000000	89043187.96	82500000	82036253.62	69500000	67404706.27
Total	368380000	252410420	325050000	305952026.96	214520000	213016917.62	176100000	173522443.27

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

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

Items	Budgeted in 2025-2026	Actual Expenses in 2025-2026 till	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
Laboratory equipment	400000	150000	605000	550000	627000	570000	533500	485000
Software	0	0	908600	826000	0	0	0	0
SDGs	400000	0	397146	361042	285846	259860	382089.4	347354
Support for faculty development	100000	50000	33000	30000	11000	10000	12100	11000
R & D	55000	40000	44000	40000	5500	5000	49500	45000
Industrial Training, Industry expert,	1000000	200000	1940431	1764028	942580	856891	614331.3	558483
Miscellaneous Expenses*	30000	28000	44000	40000	0	0	9900	9000
Total	1985000	468000	3972177	3611070	1871926	1701751	1601420.7	1455837