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: 11536	**Date of Submission**: 13-02-2026

PART A- Profile of the Institute

A1.Name of the Institute: BONAM VENKATA CHALAMAYYA ENGINEERING COLLEGE	
Year of Establishment : 1997	Location of the Institute: Odalarevu
A2. Institute Address:ODALAREVU,ALLAVARAM MANDAL,EAST GODAVARI DIST,ANDHRA PRADESH	
City:--Select--	State:Andhra Pradesh
Pin Code:533210	Website:www.bvcec.edu.in
Email:bvce@bvcgroup.in	Phone No(with STD Code):08856-250045
A3. Name and Address of the Affiliating University (if any):	
Name of the University : JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINAD	City: east Godavari
State : Andhra Pradesh	Pin Code: 533003
A4. Type of the Institution: Autonomous CAY(2018-19)	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **10**
- No. of PG programs: **8**

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	PG	Advanced Manufacturing Systems	2012	--	Mechanical Engineering
2	Engineering & Technology	UG	Artificial Intelligence and Machine Learning	2021	--	Computer Science and Engineering
3	Engineering & Technology	UG	Civil Engineering	2009	--	Civil Engineering
4	Engineering & Technology	UG	Computer Science and Engineering	1998	--	Computer Science and Engineering
5	Engineering & Technology	PG	Computer Science and Engineering	2009	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2022	--	Computer Science and Engineering
7	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence and Data Science)	2020	--	Computer Science and Engineering
8	Engineering & Technology	UG	Electrical and Electronics Engineering	1997	--	Electrical and Electronics Engineering
9	Engineering & Technology	UG	Electronics & Communication Engineering	1997	--	Electronics and Communication Engineering
10	Engineering & Technology	PG	Embedded Systems	2009	--	Electronics and Communication Engineering
11	Engineering & Technology	UG	Information Technology	2024	--	Computer Science and Engineering
12	Engineering & Technology	UG	Mechanical Engineering	1997	--	Mechanical Engineering
13	Engineering & Technology	UG	Mining Engineering	2015	2016	Civil Engineering
14	Engineering & Technology	PG	Power Electronics	2010	--	Electrical and Electronics Engineering
15	Engineering & Technology	PG	Software Engineering	2011	2016	Computer Science and Engineering
16	Engineering & Technology	PG	Soil Mechanics & Foundation Engineering	2012	2021	Civil Engineering
17	Engineering & Technology	PG	Structural Engineering	2015	--	Civil Engineering
18	Engineering & Technology	PG	Thermal Engineering	2010	2021	Mechanical 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
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/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Electronics & Communication Engineering	UG	1997 / --	60	Yes	2011	180	2011	SOUTH CENTRAL/1-420978451/2011/ EOA 01-09-2011	Granted accreditation for 3 years for the period (specify period)	2009	2012	1	4

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 :	Thoram Saran Kumar
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	154	157	178	168	180	148	173
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	29	21	31	18	33	18
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	18	18	18	17	18	12	13
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	172	204	217	216	216	193	204

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	154	18	95.56
2024-25 (CAYm1)	180	157	18	97.22
2023-24 (CAYm2)	180	178	18	108.89

Average [(ER1 + ER2 + ER3) / 3] = 100.56≡ 100

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

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

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	216.00	213.00	204.00
B=No. of students who graduated from the program in the stipulated course duration	177.00	165.00	156.00
Success Rate (SR)= (B/A) * 100	81.94	77.46	76.47

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 78.62

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)	8.07	7.61	7.24
Y=Total no. of successful students	131.00	153.00	151.00
Z=Total no. of students appeared in the examination	157.00	178.00	168.00
API [X*(Y/Z)]	6.73	6.54	6.51

Average API[(AP1+AP2+AP3)/3] : 6.59

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	7.89	7.63	7.41
Y=Total no. of successful students	160.00	179.00	182.00
Z=Total no. of students appeared in the examination	174.00	190.00	189.00
API [X * (Y/Z)]	7.26	7.19	7.14

Average API [(AP1 + AP2 + AP3)/3] : 7.20

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)

X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.98	7.81	7.58
Y=Total no. of successful students	173.00	178.00	168.00
Z=Total no. of students appeared in the examination	179.00	182.00	171.00
API [X*(Y/Z)]:	7.71	7.64	7.45

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 (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	198.00	213.00	198.00
X=No. of students placed	150.00	143.00	135.00
Y=No. of students admitted to higher studies	6.00	5.00	5.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	78.79	69.48	70.71

Average Placement Index = (P_1 + P_2 + P_3)/3: 72.99 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	Inukonda Rama Satya Nageswara Rao	XXXXXXX25L	M.Tech	K L Deemed to be University, Vaddeswaram	VLSI	01/07/2016	9.7	Assistant Professor	Assistant Professor		Regular	Yes		No
2	Akula Pravin	XXXXXXX12F	M.Tech and Ph.D.	PRIST University, Thanjavur	Communications	16/07/2001	24.7	Lecturer	Professor	06/04/2021	Regular	Yes		No
3	Thoram Saran Kumar	XXXXXXX82B	M.Tech and Ph.D.	NIILM University, Kaithal	VLSI	16/05/2012	13.8	Assistant Professor	Associate Professor	01/03/2024	Regular	Yes		Yes
4	Tammireddy Venkata Janardhana Rao	XXXXXXX25P	M.Tech and Ph.D.	Sunrise University, Alwar	Signal Processing	02/12/1999	24.9	Lecturer	Professor	04/01/2022	Regular	No	31/08/2024	No
5	Kusuma Raja Sekhar	XXXXXXX85M	M.Tech and Ph.D.	JNTUK, Kakinada	Communications	04/09/2000	25.5	Lecturer	Professor	08/02/2024	Regular	Yes		No
6	Valluri Dhanaraj	XXXXXXX98H	M.Tech and Ph.D.	JNTUK, Kakinada	Antennas	18/09/2000	25.4	Lecturer	Professor	16/08/2022	Regular	Yes		No
7	Namburi Satya Nagendra Lakshmipathiraju	XXXXXXX21R	M.Tech and Ph.D.	PRIST University, Thanjavur	Wireless Sensor Networks	30/12/2010	15.1	Assistant Professor	Professor	01/03/2022	Regular	Yes		No
8	Kompella Bhaskara Srinivasa Sarma	XXXXXXX25J	M.Tech and Ph.D.	JNTUH, Hyderabad	Signal Processing	04/11/2016	9.3	Associate Professor	Professor	11/11/2019	Regular	Yes		No
9	Tammireddy Sivasankara Phani	XXXXXXX28L	M.Tech and Ph.D.	K L Deemed to be University, Vaddeswaram	VLSI	10/03/2008	16.1	Assistant Professor	Associate Professor	24/06/2023	Regular	No	03/05/2024	No
10	Vijjapu Anuragh	XXXXXXX43M	M.Tech and Ph.D.	NIILM University, Kaithal	CSE	04/06/2009	15.2	Assistant Professor	Associate Professor	01/03/2024	Regular	No	31/07/2024	No
11	Mandem Nomitha Reddy	XXXXXXX91C	M.Tech and Ph.D.	VIT AP	VLSI	30/07/2024	1.6	Assistant Professor	Assistant Professor		Regular	Yes		No
12	S A Vara Prasad	XXXXXXX04K	M.Tech and Ph.D.	NIT Silchar	Image Processing	02/06/2025	0.8	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Chavakula Sridevi	XXXXXXX83P	M.Tech	Acharya Nagarjuna University, Guntur	Mirowave Engineering	01/06/2006	19.8	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Pangam Harika	XXXXXXX73K	M.Tech	JNTUK, Kakinada	Embedded Systems	04/01/2012	14.1	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Vallabhareddi Sandhya	XXXXXXX25B	M.Tech	JNTUK, Kakinada	Embedded Systems	14/11/2012	13.3	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Marisetty Mounika Varalakshmi	XXXXXXX85D	M.Tech	JNTUK, Kakinada	VLSI	03/01/2013	13.1	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Jalli Umamaheswari	XXXXXXX94P	M.Tech	JNTUK, Kakinada	Embedded Systems	09/02/2015	11	Assistant Professor	Assistant Professor		Regular	Yes		No

18	Yegireddi Satya Vinod	XXXXXXX07F	M.Tech	JNTUK, Kakinada	Communications	13/06/2016	9.8	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Samsani Naga Venkata Durga Priyanka	XXXXXXX03E	M.Tech	JNTUK, Kakinada	Embedded Systems	23/07/2018	7.6	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Yandamuri Sai Sandeep	XXXXXXX44P	M.Tech	JNTUK, Kakinada	Communications	01/08/2018	7.6	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Gubbala Lakshmi Durga	XXXXXXX69H	M.Tech	JNTUK, Kakinada	Embedded Systems	01/01/2019	7.1	Assistant Professor	Assistant Professor		Regular	Yes		No
22	Tikkireddy Sri Satya Mounika	XXXXXXX33A	M.Tech	JNTUK, Kakinada	Communications	01/01/2019	7.1	Assistant Professor	Assistant Professor		Regular	Yes		No
23	Seelam Naga Bharghavi	XXXXXXX05L	M.Tech	JNTUK, Kakinada	Communications	15/12/2021	4.1	Assistant Professor	Assistant Professor		Regular	Yes		No
24	Gundumenu Lakshmi Venkata Durga	XXXXXXX23N	M.Tech	JNTUK, Kakinada	Embedded Systems	01/09/2021	3.10	Assistant Professor	Associate Professor		Regular	No	31/07/2025	No
25	Gubbala Asha	XXXXXXX10K	M.Tech	JNTUK, Kakinada	Embedded Systems	03/01/2022	3.4	Assistant Professor	Assistant Professor		Regular	No	06/05/2025	No
26	Gosangi Sukanya	XXXXXXX02G	M.Tech	JNTUK, Kakinada	Embedded Systems	03/01/2022	4.1	Assistant Professor	Assistant Professor		Regular	Yes		No
27	Nimmana Lakshmi Priyanka	XXXXXXX54R	M.Tech	JNTUK, Kakinada	Embedded Systems	20/06/2022	3.7	Assistant Professor	Assistant Professor		Regular	Yes		No
28	Gidla Sudheer Babu	XXXXXXX60J	M.Tech	JNTUK, Kakinada	VLSI	05/07/2022	3.7	Assistant Professor	Assistant Professor		Regular	Yes		No
29	Bonthu Chandra Praveen	XXXXXXX49H	M.Tech	JNTUK, Kakinada	VLSI	12/10/2022	2.9	Assistant Professor	Assistant Professor		Regular	No	30/07/2025	No
30	Kanakala Sivaranjini	XXXXXXX55K	M.Tech	JNTUK, Kakinada	Embedded Systems	06/12/2022	3.1	Assistant Professor	Assistant Professor		Regular	Yes		No
31	Kankipati Swathi	XXXXXXX79B	M.Tech	JNTUK, Kakinada	VLSI	13/03/2023	2.10	Assistant Professor	Assistant Professor		Regular	Yes		No
32	Peyyila Rajesh	XXXXXXX05J	M.Tech	JNTUK, Kakinada	VLSI	17/04/2023	2	Assistant Professor	Assistant Professor		Regular	No	06/05/2025	No
33	Dunaboyina Tulasi	XXXXXXX76H	M.Tech	JNTUK, Kakinada	VLSI	30/06/2023	2.7	Assistant Professor	Assistant Professor		Regular	Yes		No
34	Seelam Lakshmi Anusha	XXXXXXX08A	M.Tech	JNTUK, Kakinada	Embedded Systems	01/08/2023	1.9	Assistant Professor	Assistant Professor		Regular	No	08/05/2025	No
35	Sabbathi Leelaveni Veni	XXXXXXX44G	M.Tech	JNTUK, Kakinada	VLSI	05/08/2023	2.5	Assistant Professor	Assistant Professor		Regular	Yes		No
36	Chikkam Surya Rama Gouri	XXXXXXX18C	M.Tech	JNTUK, Kakinada	Embedded Systems	19/07/2023	2.6	Assistant Professor	Assistant Professor		Regular	Yes		No
37	Kondamuri Naga Teja	XXXXXXX15M	M.Tech	JNTUK, Kakinada	Embedded Systems	01/08/2024	1.6	Assistant Professor	Assistant Professor		Regular	Yes		No
38	Kondamuri Purna Sidhu	XXXXXXX35M	M.Tech	JNTUK, Kakinada	Embedded Systems	01/08/2024	1.6	Assistant Professor	Assistant Professor		Regular	Yes		No
39	Nalla Ratna Priya	XXXXXXX68A	M.Tech	JNTUK, Kakinada	Embedded Systems	01/08/2024	1.6	Assistant Professor	Assistant Professor		Regular	Yes		No
40	Paramkusam Arudra	XXXXXXX24D	M.Tech	JNTUK, Kakinada	VLSI	08/07/2023	2.7	Assistant Professor	Assistant Professor		Regular	Yes		No
41	Balla Naga Lakshmi	XXXXXXX42L	M.Tech	JNTUK, Kakinada	Communications	03/04/2017	8.10	Assistant Professor	Assistant Professor		Regular	Yes		No
42	Y Narayana Murty	XXXXXXX99N	M.Tech	JNTUK, Kakinada	Embedded Systems	01/02/2025	1	Assistant Professor	Assistant Professor		Regular	Yes		No
43	B Sai Sree	XXXXXXX45F	M.Tech	JNTUK, Kakinada	Embedded Systems	01/02/2025	1	Assistant Professor	Assistant Professor		Regular	Yes		No
44	Shanmukha Satya Sudheer Naidu M	XXXXXXX94Q	M.Tech	JNTUK, Kakinada	Embedded Systems	03/04/2025	0.10	Assistant Professor	Assistant Professor		Regular	Yes		No
45	Kiran Kumar Rapaka	XXXXXXX30N	M.Tech	JNTUK, Kakinada	Embedded Systems	16/06/2025	0.7	Assistant Professor	Assistant Professor		Regular	Yes		No
46	Nadimpalli Phani Kumar	XXXXXXX01G	M.Tech	JNTUK, Kakinada	Communications	08/06/2018	7.8	Assistant Professor	Assistant Professor		Regular	Yes		No
47	Nakka Swami Dattatreyachari	XXXXXXX66A	M.Tech	JNTUK, Kakinada	Embedded Systems	20/12/2021	3.4	Assistant Professor	Assistant Professor		Regular	No	12/05/2025	No

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

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):
UG1=1st UG program
UGn=nth UG program
B= No. of Students in UG 2nd year (ST)
C= No. of Students in UG 3rd year (ST)
D= No. of Students in UG 4th year (ST)
No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):
PG1=1st PG program.
PGm=mth PG program
A= No. of Students in PG 1st year
B= No. of Students in PG 2nd year
Student Faculty Ratio **(SFR)** = S/F
S= No. of students of all programs in the Department including all students of allied departments/clusters.
No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)
Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.

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

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

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	198	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: Embedded Systems	**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	38	39	38
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=** 38	**F2=** 39	**F3=** 38
FF=The faculty members in F who have a 100% teaching load in the first-year courses	1	1	1
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 17.03**	**SFR2= 16.58**	**SFR3= 17.03**
Average SFR for 3 years	**SFR= 16.88**		

C3. Faculty Qualification

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

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQ = 2.5 x [(10X + 4Y) / RF)]
2025-26(CAY)	8	30	31.00	16.13
2024-25(CAYm1)	7	32	31.00	15.97
2023-24(CAYm2)	7	31	31.00	15.65

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	3.00	5.00	7.00	1.00	21.00	32.00
2024-25	3.00	5.00	7.00	1.00	21.00	33.00
2023-24	3.00	5.00	7.00	2.00	21.00	31.00
Average	RF1=3.00	AF1=5.00	RF2=7.00	AF2=1.33	RF2=21.00	AF2=32.00

C5. Visiting/Adjunct Faculty/Professor of Practice

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

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. R Kiran Kumar	Lab Engineer	Marathon Electric India Pvt. Ltd	Arduino Programming	54.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. B D Vara Prasad	Staff DFT Engineer-1	Sykatiya Technologies Pvt. Ltd	VLSID	60.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. B D Vara Prasad	Staff DFT Engineer-1	Sykatiya Technologies Pvt. Ltd	VLSID	54.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	23	15	13
2	No. of peer reviewed conference papers published	10	5	5
3	No. of books/book chapters published	3	1	3

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.V.CHANDRA MOULI VENKATA SRINIVAS	Dr.N.S.N.LAKSHMIPATHI RAJU	ECE	EMPOWERING TRIBAL FISHING COMMUNITY THROUGH DEVELOPMENT OF INNOVATIVE AND STANDARDISED SMOKING KILNSAND IMPROVISED TRADITIONAL FISHING GEARS	DST/SEED/ TSP/STI	3 YEARS	141.19
						Amount received (Rs.):141.19

(CAYm2)

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.VALLURI DHANA RAJ	---	ECE	CREATING RURAL ENTERPRISE OF LOW COST LANTERN TO IMPROVE QUALITY OF LIVELIHOOD OF FISHERMEN OF KONASEEMA	DST/SEED/ SCSP	2 YEARS	55.82
Dr.M.SRINIVASA RAO	Dr.N.S.N.LAKSHMIPATHI RAJU	ECE	SCIENCE AND TECHNOLOGY INTERVENTION TO MAKE LOW COST FISH DRYER TO ENHANCE SOCIOECONOMICV STATUS OF ST FISHING COMMUNITY OF KONASEEMA REGION	DST/SEED/ TSP/STI	2 YEARS	38.63
						Amount received (Rs.):94.45

Total Amount (Lacs) Received for the Past 3 Years: 235.64

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.A.PRAVIN	P.HARIKA	ECE	DESIGN AND DEVELOPEMENT OF IoT BASEDSMART SURVEILLANCE AND MONITORING SYSTEM	SEMI COLON LOGIC	2	3.60
Dr.T.SARAN KUMAR	I R S NAGESWARARAO	ECE	DEVELOPEMENT OF WIRELESS SENSOR NETWORKFOR INDUSTRIAL AUTOMATION AND DATA ACQUISITION	SEMI COLON LOGIC	2	3.20
						Amount received (Rs.):6.80

(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.DHANA RAJ VALLURI	Y SATYA VINOD	ECE	DEVELOPEMENT OFWEARABLE VITAL PARAMETER MONITORING DEVICE WITH WIRELESS COMMUNICATION	SEMI COLON LOGIC	2	4.30
Dr.NSNLP RAJU	V SANDHYA	ECE	DESIGN AND DEVELOPEMENT OF IoT BASED SMART HEALTH MONITORING SYSTEM FOR REMOTE PATIENT CARE	SEMI COLON LOGIC	2	3.90
						Amount received (Rs.):8.20

(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 KBSD SARMA	Ch.SRIDEVI	ECE	PROTOTYPE DEVELOPEMENT OF SMART BATTLE FIELD ENVIRONMENTAL MONITORING SYSTEM	SEMI COLON LOGIC	2	3.40
Dr.K.RAJASEKHAR	M.M.VARA LAKSHMI	ECE	DEPLOYMENT AND TESTING OF IoTBASED EMERGENCY MEDICAL RESPONSE AND ALERT SYSTEM	SEMI COLON LOGIC	2	2.90
						Amount received (Rs.):6.30

Total amount (Lacs) received for the past 3 years: 21.30

Note*:

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

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

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

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Mrs.CH.S.R.Gowri	Blind Spot Detection System For Vehicles	6 Months	0.08	0.06	Automative Innovation
Mr.G.Sudheer Babu	Autonomous Plant Nursery Monitoring System	6 Months	0.08	0.06	Reduced manual labor in plant care.
Ms.G.Sukanya	Biometric Voting System Using Iot	6 Months	0.09	0.05	Eliminates duplicate and fraudulent voting.
Mrs.K.Swathi	Traffic Density Based Signal Timing Control	6 Months	0.08	0.05	Reduced traffic congestion and waiting time.
Dr.Pravin Akula	Flood Disaster Management Alert System By Using Iot	6 Months	0.08	0.06	Improved disaster preparedness and response.
Ms. Tikkireddy Sri SatyaMounika	Smart Home Energy Management System	6 Months	0.08	0.06	Integration with renewable energy sources
Mr. Bonthu Chandra Praveen	Iot Based Ghat Road Signalling	6 Months	0.09	0.07	Reduced collision risks.
Mr.G.Sudheerbabu	Smart Waste Management System Using Ultrasonic Sensor	6 Months	0.09	0.07	Reduced operational costs for municipalities.
Mr.Y.Satyavinod	Gesture Controlled Home Appliances	6 Months	0.09	0.05	Innovative human-machine interaction.
Ms. Kondamuri Naga Teja	Home Automation With Voice Control & Secure Entrance	6 Months	0.08	0.06	Increased comfort and accessibility.
Dr.K.Raja Sekhar	Hand Free Pc Control With Eye Movement And Blink Sensor Using Raspberry Pi	6 Months	0.08	0.06	Improved accessibility and assistive technology.
Mrs. Balla Naga Lakshmi	Real-Time Health Monitiring System Using Iot	6 Months	0.09	0.06	Continuous monitoring of vital parameters
Mr.I.R.S.Nageswara Rao	Comparision of Different TFETs:An Overview	6 Months	0.10	0.08	Research Finding and Published in book
Dr.K.Raja Sekhar	Embedded Software Developement	6 Months	0.08	0.06	Research Finding and Published as Book
			Amount received (Rs.): 1.19		

(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
K.Lakshmi Priyanka	Design and Analysis of Quad-Element MIMO AntennaApplied to the WideBand Transmission	6 Months	0.05	0.03	Research Finding
V.Sandhya	Design and Analysis of Quad-Element MIMO AntennaApplied to the WideBand Transmission	6 Months	0.04	0.02	Research Finding
Ch.Sridevi	Design and Analysis of Quad-Element MIMO AntennaApplied to the WideBand Transmission	6 Months	0.06	0.05	Research Finding
Ms.G.Asha	Carbon Emission Monitoring System	6 Months	0.08	0.06	Data logging for analysis and decision-making
Dr. Tammireddy Venkata Janardhana Rao	Smart Greenhouse Using Arduino	6 Months	0.08	0.06	Efficient water and energy usage
Dr.K.B.S.D.Sarma	Smart Home Automation	6 Months	0.08	0.06	Energy savings through automation
Dr.A.Pravin	Embedded System Based Restaurant Automation	6 Months	0.08	0.06	Embedded System
Mrs.D.Tulasi	Iot Based Lowcost Energy Meter	6 Months	0.08	0.06	Real-time energy consumption tracking
Mr.Y.Satya Vinod	Smart Cradle	6 Months	0.06	0.04	Reduces parental workload
Ms.K.Siva Ranjini	An Automatic Driver Drowsiness Alerting System Using Gsm Module	6 Months	0.07	0.05	Enhances road safety
Mrs.K.Lakshmi Priyanka	Iot Base Industrial Montoring System	6 Months	0.07	0.06	Real-time monitoring of machinery parameters
Dr.K.Rajasekhar	System Surveillance Robot	6 Months	0.06	0.05	Remote area monitoring with camera support
Mr.G.Sudheer Babu	Fire Fighting Robot In Crucial Areas	6 Months	0.07	0.05	Detects and extinguishes fire automatically
Mrs.Ch.Sridevi	Eco-Friendly Farmier Robot Using Arduino	6 Months	0.07	0.05	Promotes eco-friendly farming practices
Mr.Yandamuri Sai Sandeep	Iot Based Women Safety Device	6 Months	0.07	0.05	Enhances personal safety
Ms. Tikkireddy Sri Satya Mounika	A Fully Portable Robot System For Dispensing Sanitizer In Hospitals	6 Months	0.07	0.05	Supports hygiene and safety protocols
			Amount received (Rs.): 1.09		

(CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr.K.Rajasekhar	Dual axis solar tracker in agriculture	6 months	0.08	0.06	Reduces dependency on conventional electricity.
Mr.Y.Satya Vinod	Detection of missing children by using IRIS and face recognition	6 months	0.08	0.06	Enhances public safety systems.
Mrs.V.Sandhya	Arduino based lineman protection system	6 months	0.08	0.06	Improves reliability of maintenance operations.
K.L.Priyanka	Seabin Floating Waste Collector Using Arduino	6 months	0.08	0.06	Reduces water pollution and plastic accumulation.
Mr.T.S.S.Phani	RFID Basad Smart Card For Transpor T , Health And Shopping	6 months	0.08	0.06	Secure data handling and authentication.
Dr.A.Pravin	Preventions Of Railway Accidents At High Risk Forests Using Arduino	6 months	0.09	0.07	Protects wildlife and human lives.
Ms. Tikkireddy Sri Satya Mounika	Smart Helmet For Leading Industries To Manage Their Workforce	6 months	0.08	0.06	Enhances industrial safety compliance.
Dr.N.S.N.Lakshmi Pathi Raju	Iot Basad Automated Horticulture For Farmers	6 months	0.07	0.05	Enables precision farming.
Ms.G. Sukanya	Voice Based Smart Home Using Node Mcu	6 months	0.08	0.06	Energy-efficient automation.
Mr.P.Harika	IOT Based accident prevention detection and reporting system using arduino	6 months	0.08	0.06	Enhances road safety systems.
Mr.Y.Satya Vinod	Auto indoor hydoor hydropnic fodder grow chamber	6 months	0.07	0.05	Improves livestock productivity.
Anuragh Vijjapu	Mutual Noise Estimation Algorithm For Video Denoising	6 Months	0.05	0.02	Research Finding and published in journal
Dr.T.V.JanadhanaRao	Virtual Technology For Smart Education	6 Months	0.05	0.02	Research Finding and published in journal
T Saran Kumar	COST AWARE OPIMIZATION BASED SCHEDULING TECHNIQUES FOR IOT TASKS	3 Months	0.08	0.05	Research Finding and published in journal
Dr.T.V.JanadhanaRao	An Examination Of The Tensile Strength,Hardness And SEM Analysis Of Al 5456	6 Months	0.04	0.02	Research Finding and published in journal
T Saran Kumar	ANALYSIS AND DETECTION OF DEPRESSION SEVERIETY SCORES BASED ON EEG SIGNAL	3 Months	0.08	0.05	Research Finding and published in Patent
AKULA PRAVIN	A NOVEL CONTENT BASED IMAGE RETRIEVAL SYSTEM WITH EDGE	3 Months	0.08	0.05	Research Finding and published in Patent
SANDHYA VALLABHAREDDY	A NOVEL BIOMEDICAL IMAGE PROCESSING METHOD FOR DETECTING	3 Months	0.08	0.05	Research Finding and published in Patent
HARIKA PANGAM	A SYSTEM FOR RECOGNIZING AND STORING A BUSSINESS CARD	3 Months	0.08	0.05	Research Finding and published in Patent
CH.SRIDEVI	ADAPTIVE AND FAULT TOLERANT DATA PROCESSING IN HEALTH CARE IOT	3 Months	0.08	0.05	Research Finding and published in Patent
I RAMA SATYA NAGESWARA RAO	AN IMPROVISED DESIGN AND DEVELOPMENT OF SOLAR CHARGING STATION FOR EV	3 Months	0.08	0.05	Research Finding and published in Patent
I RAMA SATYA NAGESWARA RAO	RECOGNITION OF OCULAR DISEASE FROM FUNGUS IMAGES	3 Months	0.08	0.05	Research Finding and published in Patent
AKULA PRAVIN	AN ADVANCED TUMOUR RECOGNITION BASED ON IOT AND ARTIFICIAL INTELLIGENCE IMAGE PROCESSING	3 Months	0.08	0.05	Research Finding and published in Patent
T SARAN KUMAR	AN IMPROVISED DESIGN AND DEVELOPMENT OF SOLAR CHARGING STATION FOR EV	3 Months	0.08	0.05	Research Finding and published in Patent
Y SATYA VINOD	IOT BASED MONITORING SYSTEM FOR PHYSICAL REHABILATION OF STROKE PATIENTS	3 Months	0.08	0.05	Research Finding and published in Patent
I RAMA SATYA NAGESWARA RAO	BANANA RIPE STAGE CLASSIFICATION USING CNN OPEN CV DEEP LEARNING PYTHON	3 Months	0.08	0.05	Research Finding and published in Patent
T SARAN KUMAR	BANANA RIPE STAGE CLASSIFICATION USING CNN OPEN CV DEEP LEARNING PYTHON	3 Months	0.08	0.05	Research Finding and published in Patent
T SARAN KUMAR	RECOGNITION OF OCULAR DISEASE FROM FUNGUS IMAGES USING MACHINE LEARNING APPROACH	3 Months	0.08	0.05	Research Finding and published in Patent
Y SATYA VINOD	IOT BASED REMOTE SMART HEALTH CARE SYSTEM FOR TELEMIDICINE	3 Months	0.08	0.05	Research Finding and published in Patent
T SARAN KUMAR	A SYSTEM FOR RECOGNIZING AND STORING A BUSSINESS CARD	3 Months	0.08	0.05	Research Finding and published in Patent
T.V JANARDHANA RAO	BICEPS BULKING MACHINE	3 Months	0.08	0.05	Research Finding and published in Patent
K LAKSHMI PRIYANKA	A NOVEL BIOMEDICAL IMAGE PROCESSING METHOD FOR DETECTING	3 Months	0.08	0.05	Research Finding and published in Patent
HARIKA PANGAM	DETECTION AND AUTISM SPECTRUM DISORDER IN EEG SIGNAL USING AI	3 Months	0.08	0.05	Research Finding and published in Patent
K RAJSEKHAR	AN ADVANCED TUMOUR RECOGNITION BASED ON IOT AND ARTIFICIAL INTELLIGENCE IMAGE PROCESSING	3 Months	0.08	0.05	Research Finding and published in Patent
I RAMA SATYA NAGESWARA RAO	COST AWARE OPIMIZATION BASED SCHEDULING TECHNIQUES FOR IOT TASKS	3 Months	0.08	0.05	Research Finding and published in Patent
I RAMA SATYA NAGESWARA RAO	MACHINE LEARNING APPROACH BASED MONITORING INSECT PESTS IN PLANTS USING CAMERA EQUIPPED DEVICE	3 Months	0.08	0.05	Research Finding and published in Patent
T SARAN KUMAR	DETECTION AND AUTISM SPECTRUM DISORDER IN EEG SIGNAL USING AI	3 Months	0.08	0.05	Research Finding and published in Patent
ANURAG VIJJAPU	IOT BASED ELECTRIC VEHICLE FOR SMART EV CHARGING STATION	3 Months	0.08	0.05	Research Finding and published in Patent
T S S PHANI	AN ADVANCED TUMOUR RECOGNITION BASED ON IOT AND ARTIFICIAL INTELLIGENCE IMAGE PROCESSING	3 Months	0.08	0.05	Research Finding and published in Patent
ANURAG VIJJAPU	DATA PRIVACY FOR PATIENTS HEALTH CARE INFORMATION USING IOMT AND BLOCK CHAIN INTEGRATION	3 Months	0.08	0.05	Research Finding and published in Patent

ANURAG VIJJAPU	ENHANCEMENTS TO A PLANT HEALTH MONITORING SYSTEM USING IOT	3 Months	0.08	0.05	Research Finding and published in Patent
ANURAG VIJJAPU	AI HEALTH CARE CHAT BOX SYSTEM	3 Months	0.08	0.05	Research Finding and published in Patent
ANURAG VIJJAPU	A SYSTEM FOR RECOGNIZING AND STORING A BUSSINESS CARD	3 Months	0.08	0.05	Research Finding and published in Patent
I RAMA SATYA NAGESWARA RAO	RECOGNITION OF OCULAR DISEASE FROM FUNGUS IMAGES USING MACHINE LEARNING APPROACH	3 Months	0.08	0.05	Research Finding and published in Patent
Anuragh Vijjapu	Mutual Noise Estimation Algorithm For Video Denoising	6months	0.04	0.02	Research Finding and published in journal
Dr.T.V.JanadhanaRao	An Examination Of The Tensile Strength,Hardness And SEM Analysis Of AI 5456	6months	0.04	0.02	Research Finding and published in journal
Dr.k.B.S.D Sarma	Design And Implementation Of Smart Wheel Chain UsingRaspberry-Pi	6months	0.04	0.02	Research Finding and published in journal
Dr. V.Dhanaraj	Deep Convolutional Neural Network And Emotional Learning Based Breast Cancer Detection	6months	0.04	0.02	Research Finding and published in journal
Dr.Rajasekhar kusuma	Prediction Of Cardiovascular Disease Using Machine Learning Algorithms With Relief And Lasso Feature	6months	0.04	0.02	Research Finding and published in journal
Dr.Rajasekhar kusuma	Design And Implementation Of Smart Wheel Chain UsingRaspberry-Pi	6months	0.04	0.02	Research Finding and published in journal
Dr.A.Pravin	Design And Implementation Of Smart Wheel Chain UsingRaspberry-Pi	6months	0.04	0.02	Research Finding and published in journal
Dr.T.V.JanadhanaRao	Influence Of Nano Alumina/Vegetable Oil Based Cutting Fluid On MQL Turning Of Stainless Steel 304	6months	0.04	0.02	Research Finding and published in journal
Dr.T.V.JanadhanaRao	Examination Of Friction Stir-Welded AA 6262/5456 Joints Through The Optimization Technique	6months	0.04	0.02	Research Finding and published in journal
Y.Satya Vinod	Steganalysis Using Convolution Neural Network	6months	0.04	0.02	Research Finding and published in journal
Anuragh Vijjapu	Steganalysis Using Convolution Neural Network	6months	0.04	0.02	Research Finding and published in journal
Dr.T.V.JanadhanaRao	Design And Optimization The Wear Characterstics For A17178/TiO2/B4C/FA Central Hybrid Composite	6months	0.04	0.02	Research Finding and published in journal
Dr.T.V.JanadhanaRao	Modeling And Parametric Optimization Of Electrical Discharge Machining On Casted Composite	6months	0.04	0.02	Research Finding and published in journal
			Amount received (Rs.): 3.93		

Total amount (Lacs) received for the past 3 years : 6.21

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	EDC LAB	4	Power supplies, Function generators, Digital storage oscilloscopes, Cathode Ray Oscilloscopes	Odd sem:18, E	Mr. A Srinivas Rao	Lab Technician	ITI
2	ECA/PDC LAB	4	Power supplies, Function generators, Digital storage oscilloscopes, Cathode Ray Oscilloscopes	Odd sem:18, E	Mr.P V V Harish	Lab Technician	Diploma
3	COMMUNICATIONS LAB	4	Microwave Bench Setup, Function generators, Digital storage oscilloscopes, Cathode Ray Oscilloscopes.	Odd sem:18, E	Mr. P. Srinivas	Lab Technician	ITI
4	IC APPLICATIONS LAB	4	Power supplies, Function generators, Digital storage oscilloscopes, Cathode Ray Oscilloscopes	Odd sem:18, E	Mr. A. Rajesh kumar	Lab Technician	Diploma
5	SIMULATION LAB	1	Personal Computers,Matlab, Lab view, Multisim, Dsch, Microwind, Anakonda (Jupyter)	Odd sem:27, E	Mr. P.Srinu	Lab Technician	Diploma
6	MPMC LAB	1	Personal Computers,EMU 8086, Vivado, Arduino, Keil, Matlab	Odd Sem: 24	Mr. K.santhosh Kumar	Lab 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	EDC LAB	❖ General Rules of Conduct in Laboratories are displayed. ❖ Specific Safety Rules for students displayed. ❖ First aid box, Fire extinguisher ❖ Well trained technical supporting staff. ❖ Avoiding the use of damaged equipments and provides needful equipments and components. ❖ Periodical servicing of the lab equipments. ❖ Maintain a clean and organized laboratory ❖ Avoiding the use of cell phones. ❖ Racks to store student belongings. ❖ All electrical installations are equipped with earthling and Miniature Circuit breakers (MCB). ❖ CCTV Surveillance. ❖ UPS is available in case of power failure.
2	ECA/PDC LAB	❖ General Rules of Conduct in Laboratories are displayed. ❖ Specific Safety Rules for students displayed. ❖ First aid box, Fire extinguisher ❖ Well trained technical supporting staff. ❖ Avoiding the use of damaged equipments and provides needful equipments and components. ❖ Periodical servicing of the lab equipments. ❖ Maintain a clean and organized laboratory ❖ Avoiding the use of cell phones. ❖ Racks to store student belongings. ❖ All electrical installations are equipped with earthling and Miniature Circuit breakers (MCB). ❖ CCTV Surveillance. ❖ UPS is available in case of power failure.

3	COMMUNICATIONS LAB	❖ General Rules of Conduct in Laboratories are displayed. ❖ Specific Safety Rules for students displayed. ❖ First aid box, Fire extinguisher ❖ Well trained technical supporting staff. ❖ Avoiding the use of damaged equipments and provides needful equipments and components. ❖ Periodical servicing of the lab equipments. ❖ Maintain a clean and organized laboratory ❖ Avoiding the use of cell phones. ❖ Racks to store student belongings. ❖ All electrical installations are equipped with earthling and Miniature Circuit breakers (MCB). ❖ CCTV Surveillance. ❖ UPS is available in case of power failure.
4	IC APPLICATIONS LAB	❖ General Rules of Conduct in Laboratories are displayed. ❖ Specific Safety Rules for students displayed. ❖ First aid box, Fire extinguisher ❖ Well trained technical supporting staff. ❖ Avoiding the use of damaged equipments and provides needful equipments and components. ❖ Periodical servicing of the lab equipments. ❖ Maintain a clean and organized laboratory ❖ Avoiding the use of cell phones. ❖ Racks to store student belongings. ❖ All electrical installations are equipped with earthling and Miniature Circuit breakers (MCB). ❖ CCTV Surveillance. ❖ UPS is available in case of power failure.
5	SIMULATION LAB	❖ General Rules of Conduct in Laboratories are displayed. ❖ Specific Safety Rules for students displayed. ❖ First aid box, Fire extinguisher ❖ Well trained technical supporting staff. ❖ Periodical servicing of the lab equipments. ❖ Maintain a clean and organized laboratory ❖ Avoiding the use of cell phones. ❖ Racks to store student belongings. ❖ All electrical installations are equipped with earthling and Miniature Circuit breakers (MCB). ❖ CCTV Surveillance. ❖ UPS is available in case of power failure.
6	MPMC LAB	❖ General Rules of Conduct in Laboratories are displayed. ❖ Specific Safety Rules for students displayed. ❖ First aid box, Fire extinguisher ❖ Well trained technical supporting staff. ❖ Periodical servicing of the lab equipments. ❖ Maintain a clean and organized laboratory ❖ Avoiding the use of cell phones. ❖ Racks to store student belongings. ❖ All electrical installations are equipped with earthling and Miniature Circuit breakers (MCB). ❖ CCTV Surveillance, Antivirus and firewall. ❖ UPS is available in case of power failure.

D3. Project Laboratory/Research Laboratory

S.No.	Name of the Laboratory	Equipment
1	Project Lab	◦ Computer Systems with internet -10 ◦ Legacy Project Prototypes ◦ Printer ◦ Scanner ◦ LCD Projector ◦ CC Camera
2	Research & Development Lab	◦ Computer Systems with internet-10 ◦ Drafting, Modeling & Analysis Software: ACT CAD, SOLIDWORKS, ANSYS, ABAQUS ◦ Access to e-journals ◦ Printer ◦ Scanner ◦ LCD Projector ◦ CC Camera
3	Centre of Excellence – Robotics and Artificial Intelligence	◦ Micro Controller & Control Boards – Arduino UNO R3 ◦ Robotics Base Kits ◦ Sensors – IR, LDR ◦ Value Add Visual Components ◦ Displays & Output ◦ Printer ◦ Scanner ◦ LCD Projector ◦ CC Camera

1. Project Laboratory

The Project Laboratory serves as a dedicated facility to support final-year undergraduate students in carrying out design projects. The laboratory is structured to promote design thinking, innovation, experimentation, and problem-solving in core mechanical engineering domains such as Design Engineering, Thermal & Fluid Engineering, and Manufacturing Engineering.

The facility enables students to conceptualize, design, fabricate, test, and validate engineering systems and components. It encourages interdisciplinary teamwork, application of modern engineering tools, project planning, documentation, and outcome-based execution. The laboratory environment promotes collaborative learning and provides access to necessary equipment, software, and internet resources to facilitate project development.

Through structured project reviews and mentor guidance, students develop competencies in:

- Design and development of solutions
- Engineering tool usage
- Project management and documentation
- Teamwork and communication
- Sustainable and socially responsible engineering practices

2. Research & Development Laboratory

The **Research & Development (R&D) Laboratory** is established to cultivate a research-oriented mindset among students and faculty members. The laboratory supports investigative learning, experimentation, data analysis, and innovation-driven projects aligned with contemporary technological advancements and sustainability goals.

The facility enables:

- Experimental investigations
- Prototype development
- Performance testing and validation
- Emission and environmental impact studies
- Applied research activities

Students are encouraged to undertake mini-projects, funded projects, and research-based final-year projects under faculty supervision. The laboratory fosters analytical thinking, interpretation of experimental data, and development of sustainable engineering solutions.

The R&D Laboratory enhances:

- Research-based knowledge application
- Design of experiments and data interpretation
- Environmental awareness and sustainability focus
- Ethical engineering practices
- Innovation and entrepreneurship culture

3. Centre of Excellence – Robotics and Artificial Intelligence

The **Centre of Excellence (CoE) – Robotics and Artificial Intelligence** is established to provide advanced training, industry-aligned skill development, and research exposure in emerging technologies such as robotics, automation, artificial intelligence, and control systems.

Available Equipment / Components List

S.No	Category	Equipment / Component
1	Microcontroller Boards	Arduino UNO R3
2	Microcontroller Boards	ESP32 / NodeMCU
3	Motor Control	Motor Driver L298N
4	Prototyping	Mini Breadboards
5	Prototyping	Jumper Wire Sets
6	Robotics Kits	2-Wheel Robot Chassis Kit
7	Robotics Kits	SG90 Servo Motor
8	Robotics Kits	MG996R Heavy Servo
9	Sensors	Ultrasonic Sensor HC-SR04
10	Sensors	IR Pair Sensor

11	Sensors	IR Proximity Sensor
12	Sensors	LDR Light Sensor Module
13	Sensors	Flame Sensor Module
14	Sensors	Sound Sensor Module
15	Sensors	DHT11 Temperature & Humidity Sensor
16	Sensors	MQ-2 Gas Sensor
17	Sensors	Soil Moisture Sensor
18	Sensors	Tilt / Vibration Sensor
19	Sensors	MPU6050 Accelerometer + Gyro
20	Sensors	Hall Effect Magnetic Sensor
21	Sensors	PIR Motion Sensor
22	Visual Components	RGB LED Modules
23	Visual Components	Single LEDs (Various Colors)
24	Input Devices	Push Button / Tact Switch Pack
25	Electronic Components	Resistors
26	Electronic Components	Potentiometer 10k/50k
27	Output Devices	Buzzer Module
28	Displays	7-Segment Display
29	Displays	LCD 16x2 Display
30	Displays	OLED Mini Display
31	Tools	Soldering Station Set
32	Tools	Hot Glue Gun + Sticks
33	Testing Tools	Continuity Tester
34	Tools	Cutter
35	Tools	Screw Driver Set

The CoE bridges the gap between academia and industry by offering:

- Hands-on training in robotic systems
- Automation and control experimentation
- AI-based applications in mechanical systems
- Industry-oriented workshops and certification programs
- Support for innovation and interdisciplinary projects

Key outcomes of the Centre include:

- Advanced design and automation competencies
- Practical exposure to intelligent systems
- Collaborative and multidisciplinary teamwork
- Adaptability to emerging technologies
- Innovation-driven project development

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)	660	33	37	11	96
2024-25(CAYm1)	780	39	42	11	92
2025-26(CAY)	780	39	42	11	92

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

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

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Infrastructure Built-Up	400	397.63	110	109.54	77	76.72	93	92.71

Library	7	6.98	10	9.84	16	15.53	8	7.95
Laboratory equipment	24	23.12	61	60.30	34	33.52	66	65.67
Teaching and non-teaching staff salary	1257	1255.27	1273	1271.72	1119	1117.28	1024	1023.98
Outreach Programs	0	0	0.45	0.41	0.95	0.92	0	0
R&D	10	6.74	16	11.43	15	10.68	18	16.43
Training, Placement and Industry linkage	32	30.87	12	11.86	25	23.35	18	17.51
SDGs	14	13.77	32	30.75	21	20.31	27	25.21
Entrepreneurship	6	5.23	6	5.03	5	4.31	4	3.80
Others, specify	250	249.83	700	698.12	510	504.50	450	447.24
Total	**2000**	**1989.44**	**2220.45**	**2209.00**	**1822.95**	**1807.12**	**1708**	**1700.50**

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

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

Items	**Budgeted in 2025-26**	**Actual Expenses in 2025-26 till**	**Budgeted in 2024-25**	**Actual Expenses in 2024-25 till**	**Budgeted in 2023-24**	**Actual Expenses in 2023-24 till**	**Budgeted in 2022-23**	**Actual Expenses in 2022-23 till**
Laboratory equipment	6.0	5.78	16.0	15.73	9.0	8.93	17.5	17.13
Software	3.0	0.0	8.0	7.37	2.0	0.0	3.0	0.0
SDGs	4.0	3.44	8.5	8.02	5.45	5.41	7.0	6.57
Support for faculty development	2.2	2.05	2.20	2.10	2.10	2.00	2.05	1.95
R & D	2.0	1.68	3.0	2.98	3.0	2.85	4.5	4.28
Industrial Training, Industry expert, Internship	9.0	8.69	5.0	4.07	8.0	7.15	6.0	5.43
Student Activities	1.0	0.90	1.2	1.0	1.5	1.1	1.3	1.0
Total	**27.2**	**22.54**	**43.90**	**41.27**	**31.05**	**27.44**	**41.35**	**36.36**