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: 10562	**Date of Submission**: 12-04-2025

PART A- Profile of the Institute

A1.Name of the Institute: Hyderabad Institute of Technology and Management	
Year of Establishment : 2001	Location of the Institute: Gowdavelli village Hyderabad
A2. Institute Address:Gowdavelli Village Medchal Mandal Ranga Reddy District Telangana State PIN 501401	
City:Ranga Reddy	State:Telangana
Pin Code:501401	Website:www.hitam.org
Email:principal@hitam.org	Phone No(with STD Code):-
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Jawaharlal Nehru Technological University Hyderaba	City: Ranga Reddy
State : Telangana	Pin Code: 500085
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: **8**
- No. of PG programs: **0**

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	Computer Science and Engineering	2001	--	Computer Science and Engineering
2	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2020	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
3	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2020	2023	Computer Science and Engineering (Cyber Security)
4	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2020	--	Computer Science and Engineering (Data Science)
5	Engineering & Technology	UG	Computer Science and Engineering (Internet of Things)	2020	2023	Computer Science and Engineering (Internet of Things)
6	Engineering & Technology	UG	Electrical and Electronics Engineering	2001	--	Electrical and Electronics Engineering

7	Engineering & Technology	UG	Electronics & Communication Engineering	2001	--	Electronics and Communication Engineering
8	Engineering & Technology	UG	Mechanical Engineering	2002	--	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
Computer Science and Engineering	Yes	Computer Science and Engineering	UG
Mechanical Engineering	No	Mechanical Engineering	UG

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

No Record

PART-B: Program information

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

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

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Electronics & Communication Engineering	UG	2001 / --	60	Yes	2014	60	2001	JNTUH: Affiliation Grant- 20/02/2024	Granted accreditation for 3 years for the period (specify period)	2019	2025	1	4

Sanctioned Intake for Last Five Years for the Electronics & Communication Engineering	
Academic Year	**Sanctioned Intake**
2024-25	60
2023-24	60
2022-23	60
2021-22	60
2020-21	60
2019-20	120

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. Rajeshwar Goud Jangampally
B. Nature of appointment:	Regular

C. Qualification:	Ph.D

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	60	60	60	60	60	120	120
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	60	60	60	60	53	84	100
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	7	7	13	21	31	32
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	4	4	2	3	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	64	71	69	76	74	115	132

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

B4. Enrolment Ratio in the First Year

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

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2024-25 (CAY)	60	60	4	106.67
2023-24 (CAYm1)	60	60	4	106.67
2022-23 (CAYm2)	60	60	2	103.33

Average [(ER1 + ER2 + ER3) / 3] = 105.56≡ 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	(2020-21) LYG	(2019-20) LYGm1	(2018-19) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	81.00	151.00	152.00
B=No. of students who graduated from the program in the stipulated course duration	46.00	86.00	113.00
Success Rate (SR)= (B/A) * 100	56.79	56.95	74.34

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 62.69

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

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

Academic Performance	CAYm1(2023-24)	CAYm2(2022-23)	CAYm3 (2021-22)

Mean of CGPA or mean percentage of all successful students(X)	6.03	6.11	6.75
Y=Total no. of successful students	59.00	59.00	62.00
Z=Total no. of students appeared in the examination	60.00	60.00	60.00
API [X*(Y/Z)]	5.93	6.01	6.97

Average API[(AP1+AP2+AP3)/3] : 6.30

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

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

Academic Performance	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	6.69	6.84	5.30
Y=Total no. of successful students	64.00	65.00	61.00
Z=Total no. of students appeared in the examination	66.00	75.00	72.00
API [X * (Y/Z)]	6.49	5.93	4.49

Average API [(AP1 + AP2 + AP3)/3] : 5.64

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

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

Academic Performance	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.33	6.32	6.29
Y=Total no. of successful students	65.00	61.00	101.00
Z=Total no. of students appeared in the examination	65.00	61.00	101.00
API [X*(Y/Z)]:	7.33	6.32	6.29

Average API [(AP1 + AP2 + AP3)/3] : 6.65

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2020-21)	LYGm1(2019-20)	LYGm2(2018-19)
FS*=Total no. of final year students	81.00	151.00	152.00
X=No. of students placed	39.00	73.00	98.00
Y=No. of students admitted to higher studies	5.00	6.00	6.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	54.32	52.32	68.42

Average Placement Index = (P_1 + P_2 + P_3)/3: 58.35 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments

(Data to be filled in for the Department and Allied Departments)

C1. Faculty details of Department and Allied Departments

Table No.C1: Faculty details in the Department for the past 3 years including CAY

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr. Bhogadi Lokeswara Rao	XXXXXXX01E	Ph.D	Andhra University	Microwave and Radar	30/08/2022	2.7	Professor	Professor		Regular	Yes		No
2	Dr. Suggubodi Venkateswarlu Devika	XXXXXXX82A	Ph.D	KL University	Communication Engineering	15/07/2008	16.8	Assistant Professor	Professor	21/01/2019	Regular	Yes		No
3	Dr. Kasarla Satish Reddy	XXXXXXX92K	Ph.D	Visvesvaraya Technological University	VLSI	01/08/2022	2.8	Associate Professor	Associate Professor		Regular	Yes		No
4	Dr. Rajeshwar Goud Jangampally	XXXXXXX06Q	Ph.D	JNTU Kakinada	Communication Engineering	27/07/2020	4.8	Assistant Professor	Associate Professor	08/10/2022	Regular	Yes		Yes
5	Dr. Kalasapati Bindu Madhavi	XXXXXXX31G	Ph.D	Lovely Profesional University	VLSI	04/08/2008	16.8	Assistant Professor	Associate Professor	02/07/2012	Regular	Yes		No
6	Dr. Gottam Omprakash	XXXXXXX62P	Ph.D	IIT Kanpur	Signal Processing	11/07/2022	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Pokala Santhosh	XXXXXXX33A	M.E/M.Tech	JNTU Hyderabad	Electronics and Communications	25/06/2018	6.9	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Punati Kondala Rao	XXXXXXX09R	M.E/M.Tech	KL University	Embedded Systems	25/06/2018	6.9	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Velicharla Moshe Rani	XXXXXXX77F	M.E/M.Tech	JNTU Hyderabad	VLSI	04/12/2014	10.4	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Chatragadda Shanthi Priya	XXXXXXX26L	M.E/M.Tech	JNTU Kakinada	Embedded and VLSI	25/06/2018	6.9	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Vallabhapurapu Tejaswi	XXXXXXX22B	M.E/M.Tech	JNTU Hyderabad	Embedded and VLSI	03/01/2022	3.3	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Pengerla Naga Venkata Naveen Kumar	XXXXXXX04Q	M.E/M.Tech	JNTU Kakinada	Embedded and VLSI	01/08/2023	1.8	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Tunga Venkanna Babu	XXXXXXX69B	M.E/M.Tech	JNTU Hyderabad	VLSI and Embedded	25/07/2022	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Dr. Panakala Rajesh Kumar	XXXXXXX35A	Ph.D	IIT Madras	VLSI and Embedded	30/08/2021	2.3	Professor	Professor		Regular	No	05/12/2023	No
15	Rachapudi Jagadeesh Chandra Prasad	XXXXXXX27Q	M.E/M.Tech	JNTU Kakinada	Communication Systems	27/02/2020	4.4	Assistant Professor	Assistant Professor		Regular	No	15/07/2024	No

16	Donthagani Prashanth Varma	XXXXXXX00C	M.E/M.Tech	JNTU Kakinada	Signal Processing	07/07/2021	2	Assistant Professor	Assistant Professor		Regular	No	27/07/2024	No
17	Dr. Purohit Vivek Rahul	XXXXXXX16B	Ph.D	Jamia Millia Islamia University	Microwave Engineering	17/04/2017	6	Professor	Professor		Regular	No	28/04/2023	No
18	Dr. Andhe Satyanarayana Murthy	XXXXXXX04P	Ph.D	GITAM University	Signal Processing	12/07/2021	1.9	Professor	Professor		Regular	No	11/05/2023	No
19	Dr. Julaiba Tahsima Mazumder	XXXXXXX68J	Ph.D	NIT Silchar	Communication Systems	01/07/2021	1.10	Assistant Professor	Assistant Professor		Regular	No	23/05/2023	No

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

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):
UG1=1st UG program
UGn=nth UG program
B= No. of Students in UG 2nd year (ST)
C= No. of Students in UG 3rd year (ST)
D= No. of Students in UG 4th year (ST)
No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):
PG1=1st PG program.
PGm=mth PG program
A= No. of Students in PG 1st year
B= No. of Students in PG 2nd year
Student Faculty Ratio **(SFR)** = S/F
S= No. of students of all programs in the Department including all students of allied departments/clusters.
No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)
Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.
F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department1 No. of PG Programs in the Department0

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

Description	**CAY(2024-25)**	**CAYm1 (2023-24)**	**CAYm2 (2022-23)**
UG1.B	66	66	66
UG1.C	66	66	66
UG1.D	66	66	132
UG1: Electronics & Communication Engineering	**198**	**198**	**264**
DS=Total no. of students in all UG and PG programs in the Department	198	198	264
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=** 198	**S2=** 198	**S3=** 264
DF=Total no. of faculty members in the Department	13	15	17
AF= Total no. of faculty members in the allied Departments	0	0	0

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	**F1=** 13	**F2=** 15	**F3=** 17
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= 15.23**	**SFR2= 13.20**	**SFR3= 15.53**
Average SFR for 3 years	**SFR= 14.65**		

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)]
2024-25(CAY)	6	7	9.00	24.44
2023-24(CAYm1)	5	10	9.00	25.00
2022-23(CAYm2)	5	12	13.00	18.85

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
2024-25	1.00	2.00	2.00	3.00	6.00	8.00
2023-24	1.00	2.00	2.00	2.00	6.00	11.00
2022-23	1.00	4.00	2.00	0.00	8.00	13.00
Average	RF1=1.00	AF1=2.67	RF2=2.00	AF2=1.67	RF2=6.67	AF2=10.67

C5. Visiting/Adjunct Faculty/Professor of Practice

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

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. Arvind Varier	Engineer	ACE Academy	Control systems ,Probability Theory and Stochastic Processes	57.00
2	Mr. Mohammad Aymon	Assistant Professor	NALSAR University	Constitution of India	50.00
3	Prof.K.Jayaraman	Professor	United Electronics	Internet of Things, Communications	60.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Prof.K.Jayaraman	Professor	United Electronics	Communications systems	50.00
2	Vinodkumar Ahuja	sr. Manager	smartronics	Embedded systems	52.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. Hussian	Assistant Professor	Assistant Professor	Signals and Systems ,Probability Theory and Stochastic Processes	53.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
1	No. of peer reviewed journal papers published	9	21	23
2	No. of peer reviewed conference papers published	24	4	2
3	No. of books/book chapters published	4	11	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 Sathish reddy		Electronics and Communication Engineering	AICTE Ministry of Education	AICTE	2 Years	3.08
						Amount received (Rs.):3.08

(CAYm2)

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: 3.08

Note*:

- Only sponsored research projects will be considered. Infrastructure-based projects will not be considered here.

C8. Consultancy Work

Table No. C8.1: List of consultancy projects received from external agencies.

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.K Bindumadhavi		Electronics and Communication Engineering	Plant Monitoring Systems and Classification of Palnt Health Using ML	Collaborate Solutions Private Limited	2 years	4.00
Dr.J Rajeshwar goud	Ms. Madhavi	Electronics and Communication Engineering	Growth of Algae: Novel Methodology Improve Traditional Aqua -Farming Using Emerging Technologies	Tech numen Systems Private Limited	2 years	5.00
Dr.SV Devika	Dr. M.Chiranjivi , Mr Santhosh Naik	Electronics and Communication Engineering	Design & Development of Aqua skimmer to clean up Garbage in water bodies	Collaborate Solutions Private Limited	2 years	10.00
						Amount received (Rs.):19.00

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.Omprakash		Electronics and communication Engineering Department	AI based portable electronic system for real time industrial application	Krishnam Technologies Pvt. Ltd	6 months	1.30
Dr. Satish Reddy K		Electronics and communication Engineering Department	Signal Processing in Delta Time of Flight Measurement	Inventuriz Pvt. Ltd. Bangalore	6 months	1.88
Mr.P.Kondala rao		Electronics and communication Engineering Department 2) Electrical & Electronics Engineering	A data collection software for the admin operations	Technumen Systems Private Limited	6 months	4.15
						Amount received (Rs.):7.33

(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.SV Devika		Electronics and Communication Engineering	MATLAB &Training for the industrial Projects	Modulus Infotech	14 months	1.40
						Amount received (Rs.):1.40

Total amount (Lacs) received for the past 3 years: 27.73

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
Mr.P.Kondala rao	Enhancing Energy Convervation in Sustainable cities through IOT and Wireless Sensor Networks	6 months	0.10	0.10	Enhancing Energy Convervation in Sustainable cities through IOT and Wireless Sensor Networks
Dr.K Bindumadhavi	Plant Monitoring Systems and Classification of Palnt Health Using ML	2 years	0.20	0.20	Advanced signal processing techniques were implemented to enhance the precision of Delta Time of Flight measurements in various applications.
Dr.SV Devika	Design & Development of Aqua skimmer to clean up Garbage in water bodies	2 years	0.40	0.40	Enhanced the team's skills in software development, database design, and real-world application deployment.
Dr.J Rajeshwar goud	Growth of Algae: Novel Methodology Improve Traditional Aqua - Farming Using Emerging Technologies	2 years	0.20	0.20	Designed with an intuitive interface for easy data entry, updating, and retrieval by non-technical administrative users.
			Amount received (Rs.): 0.90		

(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. K Bindu Madhavi	Design And Optimization of Low Power High Performance Triple Gate Finfet for Sub 22nm Technology	1 Year	1.00	1.00	Design And Optimization of Low Power High Performance Triple Gate Finfet for Sub 22nm Technology
Dr.Omprakash	AI based portable electronic system for real time industrial application	6 months	0.10	0.10	The system enabled real-time data acquisition and intelligent decision-making in industrial environments.
Dr. Satish Reddy K	Signal Processing in Delta Time of Flight Measurement	6 months	0.15	0.15	Advanced signal processing techniques were implemented to enhance the precision of Delta Time of Flight measurements in various applications.
Mr.P Kondala rao	A data collection software for the admin operations	6 Months	0.20	0.20	The development of data collection software for administrative operations resulted in improved efficiency.
			Amount received (Rs.): 1.45		

(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
Mrs. K Bindu Madhavi	Design And Optimization of Low Power High Performance Triple Gate Finfet for Sub 22nm Technology.	1 year	0.10	0.10	Design And Optimization of Low Power High Performance Triple Gate Finfet for Sub 22nm Technology
Dr.J Rajeshwar Goud	Design of Uplink and Downlink Triple Band π: Slot Antennas for Simultaneous Communication	1 year	0.10	0.10	The π-slot design optimizes impedance matching and enhances bandwidth performance.
Dr.SV Devika	MATLAB &Training for the industrial Projects	14 months	0.20	0.20	The project aimed to equip students and faculty with practical skills in MATLAB for solving real-time industrial problems
			Amount received (Rs.): 0.40		

Total amount (Lacs) received for the past 3 years : 2.75

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	Communication and Microwave Lab	4	Cathode Ray Oscilloscope, Function Generator,Regulator Power Supply ,Trainer Kit, Spectrum analyzer ,Microwave bench set up, Gunn diode bench set up	18 hours	Mrs.D.Abzeena	Lab Instructor	B. Tech
2	Analog and Digital Electronics Lab	4	Cathode Ray Oscilloscope , Function Generator ,Regulator power supply ,Trainer Kits , Stabilizer	24 Hours	Mr. Akhil	Lab Instructor	B. Tech
3	Embedded Systems lab	1	MASM software ,8051 Microcontrollers ,MSP 430 Microcontrollers,Interfacing Kits ,Keil Micro vision softwares	18 hours	Ms.Ch.Pranathi	Lab Instructor	B. Tech
4	Doing Engineering-Lab	1	Arduino Boards ,Arduino IDE ,Software ,Sensors, Dc Motor, Esp 32 ,Raspberry pi 3b+	22 hours	Ms.P Vishupriya	Lab Instructor	B. Tech
5	Signal Processing Lab	1	Octave 9.3 ,Systems ,Xilinx	20 hours	Mr.K.Sunil	Lab Instructor	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	Communication and Microwave Lab	•Specific Safety rules for Students displayed. •First aid box •fire extinguisher are kept in the laboratory. •Periodical servicing of the lab computers. •Maintain a clean & organized laboratory. •Avoid the use of cell phones. •Displayed Dos and Don’s
2	Analog and Digital Electronics Lab	•Specific Safety rules for Students displayed. •First aid box •fire extinguisher are kept in the laboratory. •Periodical servicing of the lab computers. •Maintain a clean & organized laboratory. •Avoid the use of cell phones. •Displayed Dos and Don’s
3	Embedded Systems lab	•Specific Safety rules for Students displayed. •First aid box •fire extinguisher are kept in the laboratory. •Periodical servicing of the lab computers. •Maintain a clean & organized laboratory. •Avoid the use of cell phones. •Displayed Dos and Don’s
4	Doing Engineering-Lab	•Specific Safety rules for Students displayed. •First aid box •fire extinguisher are kept in the laboratory. •Periodical servicing of the lab computers. •Maintain a clean & organized laboratory. •Avoid the use of cell phones. •Displayed Dos and Don’s
5	Signal Processing Lab	•Specific Safety rules for Students displayed. •First aid box •fire extinguisher are kept in the laboratory. •Periodical servicing of the lab computers. •Maintain a clean & organized laboratory. •Avoid the use of cell phones. •Displayed Dos and Don’s
6	Center of Excellence in IOT	•Specific Safety rules for Students displayed. •First aid box •fire extinguisher are kept in the laboratory. •Periodical servicing of the lab computers. •Maintain a clean & organized laboratory. •Avoid the use of cell phones. •Displayed Dos and Don’s

D3. Project Laboratory/Research Laboratory

The Department of Electronics and Communication Engineering (ECE) provides dedicated laboratories to support projects, research, and innovation. These specialized facilities encourage students and faculty to work on cutting-edge technologies, foster innovation, and facilitate collaboration with industry.

Table No. 7.5.1: List of project laboratory/research laboratory /Centre of Excellence

S.No	Name of the Laboratory
1	Project Lab
2	Center of Excellence

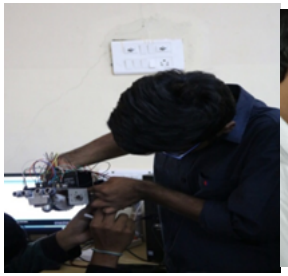
7.5.1.1. Research and Project lab:

The Project Laboratory is a dedicated, innovation-driven space that empowers students to translate theoretical concepts into practical applications. Designed to support both undergraduate and postgraduate students, the lab facilitates the execution of mini and major academic projects across diverse domains, including power electronics, embedded systems, renewable energy, and smart systems.

This dynamic environment fosters creativity, teamwork, and interdisciplinary collaboration, encouraging students to explore emerging technologies and develop industry-relevant solutions. Faculty members and technical staff provide continuous support and guidance, helping students effectively utilize equipment and tools. The Project Laboratory serves as a vital hub for applied learning, innovation, and industry-oriented development.

Objectives of the Project Laboratory:

- To provide a fully equipped, dedicated space for undergraduate and postgraduate students to design, develop, and implement innovative projects aligned with their academic curriculum.
- To enable students to apply theoretical knowledge to real-world problems, enhancing their technical proficiency and problem-solving capabilities.
- To promote research-driven projects that lead to academic publications and participation in technical competitions.
- To foster a creative and innovative mindset, encouraging the development of prototypes and proof-of-concept models in emerging technology areas.
- To support multidisciplinary collaboration, enabling students from various fields to work together and develop novel, integrated solutions.
- To nurture innovation by providing a platform for students to realize their ideas through hands-on prototype development.
- To enhance practical problem-solving skills through exposure to real-time challenges and cross-functional teamwork.
- To prepare students for industry roles by familiarizing them with modern tools, equipment, and hardware platforms used in current engineering practice**.**




S.No	Name of the Activity	Tittle
1	Student Paper Publications	No of Publication: 25
2	Industry Innovation Cell	No of Projects Uploaded:40
3	Project Expo	No of awards received: 2

7.5.1.2. Center of Excellence in IOT:

The Department of Electronics and Communication Engineering established a Center of Excellence in IoT in 2017. This center provides opportunities for students interested in the embedded domain to carry out their projects each year.

Our institute has signed a Memorandum of Understanding (MoU) with IIIT Hyderabad, which offers internship opportunities for our students. Over the past three years, Electronics and Communication Engineering students have participated in internships ranging from 3 to 6 months at IIIT Hyderabad.

Last year, 28 of our students participated in the AMD Competition, submitted their projects, and received certificates of recognition

Objectives: 1.To impart the students the necessary skills to fulfil the industrial needs

2.Provide hands-on training and skill-building programs for students, faculty, and industry professionals in IoT tools, hardware platforms

Expected outcomes:

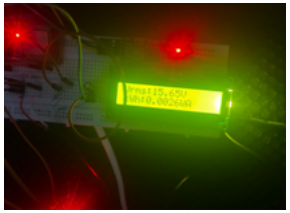
- To develop prototypes out of the ideas
- To win the National/International Wide competitions
- To make the students work in teams
- To guide the students in writing the research Papers
- To publish patents
- To organize certification programs for students
- To conduct Workshops and make the students understand various advanced technologies in IOT.
- To make students ready for Industrial career


7 Teams Recieved AMD Global Hacksteir: It is a global level Hackathon conducted by AMD in collaboration with NGO, 7 Teams from HITAM won the competition and was awarded with AMD Processor, the students are currently working on this processor to develop projects.

Name of the Student	Team Leader Roll Number	Team Members With Hall Ticket numbers	Title	Guide
Anumula Nymisha Nandini Reddy	20E51A6605	Rupesh-20E51A6640;Thanmayee-20E51A0453	1.Virtuza: Your Personalized Companion	Mrs. V. Tejaswi
Mandapalli chatya manikanta	22E55A0404	heramba(22E55A0436),Richitha(21E51A0440), P. Yesho Pavan(21E51A0442)	2. Deep dive (underwater robot) using kria KR260 robotics starter kit	Dr. Siva Prasad
R. Akshita Reddy	21E51A0451	Pradeep(21E51A0417), Sanjana(21E51A0450)	6. AI Based Traffic Control System	Mrs. CH. Shanthi
P Charan Kumar	21E55A0326	D Pavani-20E51A6618,Neha-20E51A6639	3. OCTACLEANER: An Underwater Drone	Dr. Siva Prasad
Nallavelli Harshavardhan	21E51A0435	INDRASENA REDDY_2151A0447), SHAILESH(21E51A0441), AKBAR ZAINOOL(21E51A6934)	4. GARDENING MONITORING ROBOTIC AI SYSTEM USING THE AMD PROCESSOR	Mr. P. N. V Naveen Kumar
Pravalika	21E51A6913	PULI VINAY(21E51A0448), Yadagiri(22E55A6902), SAI KRISHNA RAJU(21E51A0452)	5. Road Guard: AI-Powered Road Damage Detection and Reporting System	Mr. P. N. V Naveen Kumar
Vishal Chowdary	21E51A6227	BIGIMALLA NIRMALA(21E51A6205), RESHMITHA(21E51A6911)	5. AYUV - Transforming Healthcare, One Byte at a Time.	Mrs. V. Tejaswi

- **Home Automation using IOT:**

The current and voltage values are checked and accordingly whenever there is excess usage of power then the power is cut



Smart Shopping Cart: The billing of the items taken in the shopping mall will be scanned and added directly in the cart and the customer can do the payment using the QR generated in the cart display

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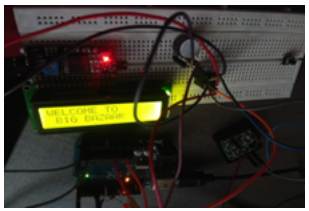
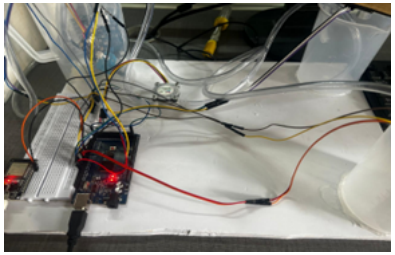


Water Monitoring System: This project monitors the quality of water based on Ph Meter, Conductivity, it also checks the level of water

in tank and accordingly it will release the water supply from main tank to sub tanks only if the water quality is good



PART E: First Year faculty and financial Resources

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

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) +(NS2*0.2))/RF

2022-23(CAYm2)	540	27	20	10	67
2023-24(CAYm1)	600	30	22	11	66
2024-25(CAY)	720	36	30	13	74

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

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

Items	Budgeted in 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Infrastructure Built-Up	130000000	136628792	38000000	40769983	2000000	2205450	45000000	47342252
Library	700000	452723	1200000	1365752	1000000	1136130	1000000	959710
Laboratory equipment	2800000	3086525	8000000	8749441	4500000	4929643	5500000	5576837
Teaching and non-teaching staff salary	155000000	156312830	150000000	146247866	113000000	112295386	75000000	74849825
Outreach Programs	500000	477434	1000000	1175039	300000	298885	500000	335748
R&D	800000	504700	1500000	1341214	500000	502582	1550000	1644500
Training, Placement and Industry linkage	4500000	4889355	3500000	3450861	2500000	2395655	3000000	3834576
SDGs	2200000	2117622	2000000	2363732	500000	613062	1500000	1530944
Entrepreneurship	500000	488816	500000	500000	1000000	1256784	1000000	705555
Others, specify	0	0	0	0	0	0	0	0
Total	**297000000**	**304958797**	**205700000**	**205963888**	**125300000**	**125633577**	**134050000**	**136779947**

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

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

Items	Budgeted in 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Laboratory equipment	250000	195433	1000000	984353	500000	480380	500000	496957
Software	200000	174950	100000	65580	150000	111177	200000	172263
SDGs	300000	254115	300000	283648	75000	73568	200000	183713

Support for faculty development	400000	363029	600000	554448	1000000	850062	450000	414756
R & D	100000	60564	300000	160946	70000	60310	200000	197340
Industrial Training, Industry expert, Internship	600000	586723	500000	414103	400000	287479	500000	460150
Miscellaneous Expenses*	10000	0	10000	0	5000	0	5000	0
Total	**1860000**	**1634814**	**2810000**	**2463078**	**2200000**	**1862976**	**2055000**	**1925179**