



**METHODIST**  
**COLLEGE OF ENGINEERING & TECHNOLOGY**  
Accredited by NAAC with A+ and NBA  
Affiliated to Osmania University & Approved by AICTE

Estd : 2008



# **ANNUAL REPORT**

**(Academic Year 2024 - 25)**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING**

### **VISION OF THE INSTITUTION**

To produce ethical, socially conscious and innovative professionals who would contribute to sustainable technological development of the society.

### **MISSION OF THE INSTITUTION**

- To impart quality engineering education with latest technological developments and interdisciplinary skills to make students succeed in professional practice.
- To encourage research culture among faculty and students by establishing state of art laboratories and exposing them to modern industrial and organizational practices.
- To inculcate humane qualities like environmental consciousness, leadership, social values, professional ethics and engage in independent and lifelong learning for sustainable contribution to the society.

## **VISION OF THE DEPARTMENT**

To become a reputed centre for imparting quality education in Electrical and Electronics Engineering with human values, ethics and social responsibility.

## **MISSION OF THE DEPARTMENT**

- To impart fundamental knowledge of Electrical, Electronics and Computational Technology.
- To develop professional skills through hands on experience aligned to industry needs.
- To undertake research in sunrise areas of Electrical and Electronics Engineering.
- To motivate and facilitate individual and team activities to enhance personality skills.



### Index

Sl. No.	Content	Page No.
	<b>Annual Report Format</b>	5-36
<b>1</b>	<b>Departmental Profile</b>	37-40
	Academic Programs	41-48
	Admissions Statistics	49
	Laboratory Equipment (Hardware/ Software) upgrades	
<b>2</b>	<b>Academic Highlights</b>	
<b>a</b>	<b>Faculty and Staff</b>	
	Faculty Achievements and Awards	50-53
	Professional Development Activities Organised	
	Professional Development Activities	54-106
	Professional Memberships	107
	Ph.D. Guided / Guiding	
<b>b</b>	<b>Students</b>	
	Academic Achievements	108-125
	Sports Activities Participated	126-129
	Awards and Honours Won	130-135
	Student club and organization achievements	
	Cultural Activities	
	Parent- Teacher Meeting	
<b>4</b>	<b>Research and Development</b>	136-137
	Research Projects and Grants	
	Publications in Journals	138-149
	Publications in Proceedings of Conferences	149-152
	Collaborations and Partnerships	153-162
	Patents, Innovations and Start-ups	163
	Research collaborations and Industry partnerships	
	Internships and Training Programs	
	Consultancy	
<b>5</b>	<b>Placements</b>	
	Placement Statistics including Higher Education	164
<b>6</b>	<b>Alumni updates</b>	
	Alumni Meetings Conducted	
	Alumni achievements	
	Renowned Alumni	
<b>7</b>	<b>Financial Report</b>	
	Budget Proposals and Utilisation	165-166
<b>8</b>	<b>Community Engagement and Outreach</b>	
	Programs conducted with NSS on Social Responsibility Initiatives	167

- **Departmental Profile**

- ✓ Academic Programs

Program Name	Degree	Duration	Intake	Specialisation
Electrical and Electronics Engineering	B.E.	4 years	60	----

- ✓ Admissions Statistics

Academic Year	Program	Sanctioned Intake	Total Admitted Students	Admission Percentage	Male Students	Female Students
2024-25	B.E, Electrical and Electronics Engineering	60	40	66.66%	33	07
2024-25 (lateral entry students)	B.E, Electrical and Electronics Engineering	6	27	100%	20	7

- ✓ Laboratory Equipment (Hardware/ Software) upgrades

Sl. No.	Major Equipment/ Software with specifications	Cost of Equipment/ Software	Quantity	Total cost including GST
1	3- $\phi$ Auto transformer	28,000.00	01	33,040.00
2	3- $\phi$ Resistive Load	20,000.00	01	23,600.00
3	1- $\phi$ Auto transformer	10,000.00 ( <b>Each</b> )	02	23,600.00
4	Displacement Measurement Using LVDT. (Trainer Kit)	12,400.00	01	14,632.00
5	Measurement of R, L, C & Q at 1KHz and 100 KHz frequency of supply by using LCR meter. (LCR Meter)	10,000.00	01	11,800.00

- **Academic Highlights:**

- **Faculty and Staff**

- ✓ Faculty Achievements and Awards

Faculty Name	Achievement / Award	Description	Date	Awarding Body/ Institution	Remarks
NIL					

- ✓ Professional Development Activities Organised

- Conferences
- FDPs
- Workshops
- Seminars/ Webinars

S.No	Name of the Event	Title of the Event	Date of the Event	Collaborating Agency	No of Students Attended
1	Seminar	Career Guidance Program	12th September 2024	Mr.P.Ramesh, Subject Expert and Motivational Speaker, ACE Academy	110
2	Workshop	A three day Workshop on IOT systems Design & Application	4th-6th November 2024	In Association with PRAGYATMIKA-Centre of Excellence in Industrial Internet of Things	50
3	Workshop	A Four day workshop on Programmable logic Controllers & SCADA	11th-14th November 2024	In Association with Electromotion Technologies	85
4	Seminar	Industrial Automation	12th November 2024	Mr.Mohammed Akmal, Manager, Siemens Pvt.Ltd	125
5	Guest Lecture	Career Development & Global opportunities	27th November 2024	Mr.Gopal T.K Krishna, Founder-Chairman of Krishna Engineering Consultants, USA	120
6	Workshop	A two day Workshop on PCB Design & Fabrication	12 <sup>th</sup> -13 <sup>th</sup> March 2025	In Association with Pantech eLearning Private Ltd.	50
7	Workshop	A two day Workshop on Fundamentals in Artificial Intelligence	10 <sup>th</sup> -11 <sup>th</sup> April 2025	In association with IBM Skills Build and Magic Bus India Foundation	110
8	Expert	Wiring Your	21 <sup>st</sup> April 2025	Prof.M.Lakshmipath	100

	Lecture	Future: Strategic Pathways For Engineering Success		i Rao, Expert & Motivational speaker, MCET	
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Professional Development Activities (Registered/ Attended / Passed)

- Conferences
- Self-Study Courses (SWAYAM/ NPTEL/ COURSERA ETC)
- FDPs
- Workshops
- Seminars/ Webinars
- Orientation Courses
- Refresher Courses
- Certification Courses

Sl.No.	Name of The Faculty	Event Name (seminar, webinar, workshop, and FDP)	Title of The Event	Name of The Organised Agency	From date - To date
1	Mrs. A. Archana	ATAL FDP	Sustainable Water And Waste Management	Methodist College of Engineering & Technology	23/09/2024 to 28/09/2024
2	Mr. K. Pulla Reddy	ATAL FDP	Sustainable Water And Waste Management	Methodist College of Engineering & Technology	23/09/2024 to 28/09/2024
3	Mrs. A. Archana	FDP	Fundamentals of Artificial Intelligence	NPTEL-AICTE	July-October 2024
4	Mr. K. Pulla Reddy	FDP	Fundamentals of Artificial Intelligence	NPTEL-AICTE	July-October 2024
5	Mrs. A. Archana	FDP	Data Visualization and Business Intelligence using Power BI and Tableau delivered by ElectroCloud Labs	Methodist College of Engineering & Technology	27th -31st January 2025
6	Mrs. A. Archana	FDP	Outcome Based Pedagogic Principles for Effective Teaching	NPTEL-AICTE	Feb-Mar 2025
7	Mrs. A. Archana	FDP	Green Technologies In Electrical Engineering: A Path to Sustainability	AMET Deemed to be University, Chennai	19th May – 30th May 2025

8	Mr. G. Mohan Krishna	FDP	Modelling and Design of Renewable Energy Sources using MATLAB/Simulink	Anurag University	1 <sup>st</sup> -13 <sup>th</sup> July 2024
9	Mrs. V. Saketha	FDP	Generative AI	Universal Engineering College	22 <sup>nd</sup> -26 <sup>th</sup> July 2024
10	Dr. Mahmad Mustafa	Training	UGC Sponsored Faculty Induction Program	Maulana Azad National Urdu University	18 <sup>th</sup> July – 14 <sup>th</sup> August 2024
11	Dr. Bhukya Laxman	Training	UGC Sponsored Faculty Induction Program	Maulana Azad National Urdu University	18 <sup>th</sup> July – 14 <sup>th</sup> August 2024
12	Dr. Y. Mastanamma	Training	UGC Sponsored Faculty Induction Program	Maulana Azad National Urdu University	18 <sup>th</sup> July – 14 <sup>th</sup> August 2024
13	Mr. P. Rajinikanth	ATAL FDP	Mitigating Climate Change Through Sustainable Electrical Engineering Solutions	Parala Maharaja Engineering College	20/01/2025 to 25/01/2025
14	Dr. Namburi Nireekshana	FDP	Microgrid System Design & Simulation Using HOMER Pro & HOMER Grid Software	Dell soft Technologies	24 <sup>th</sup> July 2024
15	Dr. Namburi Nireekshana	FDP	Future of AI in Education: Enhancing Teaching and Learning	Saradha Gangadharan College, Puducherry	14 - 18 April 2025
16	Dr. Bhukya Laxman	FDP	Innovative Learn, Succeed: Impact of IEEE Resources in Engineering Education	IEEE-EBSCO	23 <sup>rd</sup> July 2024
17	Dr. Namburi Nireekshana	FDP	Python for Data Science	NPTEL-AICTE	Jul-Aug 2024
18	Dr. Namburi Nireekshana	FDP	Fundamentals of Artificial Intelligence	NPTEL-AICTE	July-October 2024
19	Dr. Namburi Nireekshana	FDP	Machine Learning and Deep Learning-Fundamentals and Applications	NPTEL-AICTE	July-October 2024
20	Dr. Bhukya Laxman	FDP	Python for Data Science	NPTEL-AICTE	Jul-Aug 2024

21	Mr. P. Rajinikanth	FDP	Microgrid System Design & Simulation Using HOMER Pro & HOMER Grid Software	Dell soft Technologies	24 <sup>th</sup> July 2024
22	Mr. P. Rajinikanth	FDP	Embracing the Future: Innovations in Education, Technology and Research	Methodist College of Engineering & Technology	3 <sup>rd</sup> -7 <sup>th</sup> Feb 2025
23	Dr. Y. Mastanamma	FDP	Introduction to Machine Learning	NPTEL-AICTE	Jan-April 2025
24	Dr. Y. Mastanamma	FDP	EV - Vehicle Dynamics and Electric Motor Drives	NPTEL-AICTE	Jan-April 2025
25	Dr Bhukya Laxman	FDP	AI & ML Applications to Renewable Energy Systems and Electric Vehicles	Methodist College of Engineering & Technology	20 <sup>th</sup> -24 <sup>th</sup> January 2025
26	Dr Mahmad Mustafa	FDP	AI & ML Applications to Renewable Energy Systems and Electric Vehicles	Methodist College of Engineering & Technology	20 <sup>th</sup> -24 <sup>th</sup> January 2025
27	Mrs. A. Archana	FDP	AI & ML Applications to Renewable Energy Systems and Electric Vehicles	Methodist College of Engineering & Technology	20 <sup>th</sup> -24 <sup>th</sup> January 2025
28	Mrs. V. Saketha	FDP	AI & ML Applications to Renewable Energy Systems and Electric Vehicles	Methodist College of Engineering & Technology	20 <sup>th</sup> -24 <sup>th</sup> January 2025
29	Mr. P. Rajinikanth	FDP	AI & ML Applications to Renewable Energy Systems and Electric Vehicles	Methodist College of Engineering & Technology	20 <sup>th</sup> -24 <sup>th</sup> January 2025
30	Mr. K. Pullareddy	FDP	AI & ML Applications to Renewable Energy Systems and Electric Vehicles	Methodist College of Engineering & Technology	20 <sup>th</sup> -24 <sup>th</sup> January 2025
31	Mr. E. Saidulu	FDP	AI & ML Applications to Renewable Energy Systems and Electric Vehicles	Methodist College of Engineering & Technology	20 <sup>th</sup> -24 <sup>th</sup> January 2025
32	Dr. J. Ramesh Babu	FDP	AI & ML Applications to Renewable Energy Systems and Electric Vehicles	Methodist College of Engineering & Technology	20 <sup>th</sup> -24 <sup>th</sup> January 2025
33	Dr. N. Nireekshana	FDP	AI & ML Applications to Renewable Energy Systems and Electric Vehicles	Methodist College of Engineering & Technology	20 <sup>th</sup> -24 <sup>th</sup> January 2025

34	Mr. G. Mohan Krishna	FDP	AI & ML Applications to Renewable Energy Systems and Electric Vehicles	Methodist College of Engineering & Technology	20 <sup>th</sup> -24 <sup>th</sup> January 2025
35	Dr. Y. Mastanamma	ATAL FDP	Sustainable Water And Waste Management	Methodist College of Engineering & Technology	23/09/2024 to 28/09/2024
36	Dr. Namburi Nireekshan	FDP	Advancements in Battery Technology and Management for SustainableE-Mobility	Mahatma Gandhi Institute of Technology	16-06-2025 to 20-06-2025
37	Dr. Namburi Nireekshana	FDP	Recent Trends in Electrical and Electronics Engineering	Global Institute of Science and Technology	21/04/2025 to 26/04/2025

Sl. No.	Name of the faculty	Name of the Course	Dates/Duration	Equivalent FDP days
1	Dr Y Mastanamma	Fundamentals of Artificial Intelligence	12 weeks	1½ Week
2	Dr Y Mastanamma	Introduction to Machine learning	12 weeks	1½ Week
3	Dr Y Mastanamma	EV- Vehicle Dynamics and Electric Motor Drives	12 weeks	1½ Week
4	Dr B Laxman	Python for Data Science	4 weeks	½ Week
5	Dr Mahmad Mustafa	Introduction to Internet of Things	12 weeks	1½ Week
6	K Pulla Reddy	Python for Data Science	4 weeks	½ Week
7	K Pulla Reddy	Fundamentals of Artificial Intelligence	12 weeks	1½ Week
8	A Archana	Fundamentals of Artificial Intelligence	12 weeks	1½ Week
9	A Archana	Outcome Based Pedagogic Principles For Effective Teaching	4 weeks	½ Week

<b>10</b>	G Mohankrishna	Fundamentals of Artificial Intelligence	12 weeks	1½ Week
<b>11</b>	N Nireekshana	Python for Data Science	4 weeks	½ Week
<b>12</b>	N Nireekshana	Fundamentals of Artificial Intelligence	12 weeks	1½ Week
<b>13</b>	N Nireekshana	Machine learning and deep learning	12 weeks	1½ Week

✓ Professional Memberships

<b>Membershi p ID</b>	<b>Professional Organisatio n</b>	<b>Membership Type</b>	<b>Membership Duration</b>
LM-59329	ISTE	Life member	Life member
278579	IAENG	Life member	Life member
M-504356	IETE	Life member	Life member
PM4502789 3	IFERP	Professional Member	Professional Member
334025 Life Member	IAENG	Life member	Life member
138232	ISTE	Life member	Life member
278574	IAENG	Life member	Life member
PM8142635 7	IFERP	Life member	Life member
138231	ISTE	Life member	Life member
ID:146016	IAENG	Life member	Life member
LM138224	<b>ISTE</b>	Life member	Life member
93769316	IEEE	Professional Member	Professional Member
138225	ISTE	Life member	Life member

<b>Membership ID</b>	<b>Professional Organisation</b>	<b>Membership Type</b>	<b>Membership Duration</b>
291421	IAENG	Life member	Life member
291415	IAENG	Life member	Life member
APE/00162/16	ECI	Life member	Life member
334004	IAENG	Life member	Life member
138230	ISTE	Life member	Life member
278575	IAENG	Life member	Life member
138228	ISTE	Life member	Life member
LM119422	ISTE	Life member	Life member
334002	IAENG	Life member	Life member
138226	ISTE	Life member	Life member

✓ Ph.D. Guided / Guiding

<b>Ph.D. Student Name</b>	<b>Thesis Title</b>	<b>Year of Enrolment</b>	<b>Year of Completion</b>	<b>Current Status</b>	<b>Co-Supervisor(s)</b>	<b>Publications</b>
Ghule Arjun Bali	Analysis of factors responsible for degradation of automatic speech recognition performance over packet crasure network	2011	ongoing	ongoing	Dr.Prabhu G Benakop	
D Sailaja	Wireless sensor networks	2011	ongoing	ongoing	Dr.Prabhu G Benakop	
T.Venkata Suresh kumar	Routing in mobile Ad-hoc networks	2011	ongoing	ongoing	Dr.Prabhu G Benakop	

Ph.D. Student Name	Thesis Title	Year of Enrolment	Year of Completion	Current Status	Co-Supervisor(s)	Publications
B.Sathish	Design in the power limited scaling regime for digital circuits	2012	2023	awarded	Dr.Prabhu G Benakop	
K Sukanya	A mesochronous pipelining scheme for high performance digital systems on the interplay of parallelization, program performance, and energy consumption	2012	ongoing	ongoing	Dr.Prabhu G Benakop	
Chandrasekhar Kandagatla	VLSI Design and implementation of low power Transceiver	2010	2023	awarded	Dr.Prabhu G Benakop	
Shahida Begum Mohammed	Performance Analysis of Multistage Fault Tolerant Adaptive Filter as Compared to non-Fault Tolerant Adaptive Filter for Noisy ECG signals	2012		ongoing	Dr Prabhu G Benakop	

- **Students**

- ✓ Academic Achievements (Gold Medals/ Ranks/ Toppers)

Roll No.	Semester	Student Name	Achievement	Description
160723734323	III	NAMPALLY ABHIRAM SAI	Topper	Secured 9.1 cgpa in III sem (B.E in Electrical and Electronics Engineering)
160722734007	V	YOUSF JAVID HUSSAIN	Topper	Secured 9.35 cgpa in V sem (B.E in Electrical and Electronics Engineering)

160721734310	VII	SINGANI ARAVIND	Topper	Secured 9.55 cgpa in VII sem (B.E in Electrical and Electronics Engineering)
160721734321	VII	VANGARI SHASHIKAN TH	Topper	Secured 9.55 cgpa in VII sem (B.E in Electrical and Electronics Engineering)
160723734302	IV	SRIPATHI SRIVARMA	Topper	Secured 9.45 cgpa in III sem (B.E in Electrical and Electronics Engineering)
160722734003	VI	SADIYA SHIRAJ	Topper	Secured 9.23 cgpa in III sem (B.E in Electrical and Electronics Engineering)

✓ Student Academic Performance

Academic Year	Semester	Total Strength	No. of Students passed	Pass percentage
2024-25	III	66	41	65.08
2024-25	V	59	47	82.46
2024-25	VII	47	38	80.85
2024-25	VI	59	51	87.93
2024-25	IV	65	42	66.67

Sl. No.	Name of the Student	Name of the NPTEL/ SWAYAM Course	Dates/Duratio n	Percentage
1	Yousuf Jaweed Hussain	Energy resources, Economics, and Sustainability	8 Week (Feb-Apr 2025)	60%
2	Md Inthiyaz	Energy resources, Economics, and Sustainability	8 Week (Feb-Apr 2025)	75%
3	Syed Mustakhim Hussain	Energy resources, Economics, and Sustainability	8 Week (Feb-Apr 2025)	72%

4	R Dharani Divyashree	Design of Power electronic converters	8 Week (Feb-Apr 2025)	52%
5	Karishma Naaz	Design of Power electronic converters	8 Week (Feb-Apr 2025)	53%
6	Md Mujtaba Furkhan Ali	Enhancing Soft Skills and Personality	8 Week (Feb-Apr 2025)	69%
7	Bhukya Reetha Jalaja	Enhancing Soft Skills and Personality	8 Week (Feb-Apr 2025)	64%
8	A Shiva	Enhancing Soft Skills and Personality	8 Week (Feb-Apr 2025)	60%
9	Singani Aravind	Design of Power electronic converters	8 Week (Feb-Apr 2025)	58%
10	Ashwini Omprakash	Enhancing Soft Skills and Personality	8 Week (Feb-Apr 2025)	65%

S.NO	SEMESTER	Name of the student	Name of the event	Venue	Date	Award
1	VII SEM	N JAGADESSWARA REDDY	GENO'S 24 A NATIONAL LEVEL TECHNICAL SYMPOSIUM	JNTUH	JULY 2024	Participation
2	VII SEM	MUKTA TEJASWI	GENO'S 24 A NATIONAL LEVEL TECHNICAL SYMPOSIUM	JNTUH	JULY 2024	Participation
3	VII SEM	C Mukta Tejaswi	One day career enhancement programme	Kalam's institute of youth excellence	15 <sup>th</sup> OCT 2024	Participation & VOLUNTEER
4	III SEM	PARDESHI ANEESH	3 DAYS HANDS ON WORKSHOP ON IOT SYSTEMS DESIGN & APPLICATION	CENTER OF EXCELLENCE – IIOT ,MCET	6 <sup>TH</sup> NOV 2024	Participation
5	III SEM	VARU CHIRAG	3 DAYS HANDS ON WORKSHOP ON IOT SYSTEMS DESIGN & APPLICATION	CENTER OF EXCELLENCE – IIOT ,MCET	6 <sup>TH</sup> NOV 2024	Participation
6	III SEM	C.A.V KARTHIKEYA	3 DAYS HANDS ON WORKSHOP ON IOT SYSTEMS DESIGN & APPLICATION	CENTER OF EXCELLENCE – IIOT ,MCET	6 <sup>TH</sup> NOV 2024	Participation
7	III SEM	N.VAISHNAVI	3 DAYS HANDS ON WORKSHOP ON IOT	CENTER OF EXCELLENCE –	6 <sup>TH</sup> NOV 2024	Participation

			SYSTEMS DESIGN & APPLICATION	IHOT ,MCET		
8	III SEM	M.VAMSHI GOUD	3 DAYS HANDS ON WORKSHOP ON IOT SYSTEMS DESIGN & APPLICATION	CENTER OF EXCELLENCE – IHOT ,MCET	6 <sup>TH</sup> NOV 2024	Participation
9	III SEM	B.DEVIKA	3 DAYS HANDS ON WORKSHOP ON IOT SYSTEMS DESIGN & APPLICATION	CENTER OF EXCELLENCE – IHOT ,MCET	6 <sup>TH</sup> NOV 2024	Participation
10	III SEM	AKSHITHA. M	3 DAYS HANDS ON WORKSHOP ON IOT SYSTEMS DESIGN & APPLICATION	CENTER OF EXCELLENCE – IHOT ,MCET	6 <sup>TH</sup> NOV 2024	Participation
11	III SEM	B. MAHESH	3 DAYS HANDS ON WORKSHOP ON IOT SYSTEMS DESIGN & APPLICATION	CENTER OF EXCELLENCE – IHOT ,MCET	6 <sup>TH</sup> NOV 2024	Participation
12	VIII SEM	N JAGADESSWARA REDDY	ANVESHANA 2025 A Regional level science and engineering fair	AGASTYA FOUNDATION	7 <sup>th</sup> & 8 <sup>th</sup> Feb 2025	Participation
13	VIII SEM	BHUKYA REETHA JALEJA	ANVESHANA 2025 A Regional level science and engineering fair	AGASTYA FOUNDATION	7 <sup>th</sup> & 8 <sup>th</sup> Feb 2025	Participation
14	VIII SEM	D ELISHA	ANVESHANA 2025 A Regional level science and engineering fair	AGASTYA FOUNDATION	7 <sup>th</sup> & 8 <sup>th</sup> Feb 2025	Participation

✓ Awards and Honors Won

S.NO	SEMESTER	Name of the student	Name of the event	Venue	Date	Award
1	IV SEM	C.A.V KARTHIKEYA	IOT DESIGN –E-MANIA HACKATHON	CENTER OF EXCELLENCE – IHOT ,MCET	7 <sup>TH</sup> MARCH 2025	I PRIZE
2	IV SEM	VARU CHIRAG	IOT DESIGN –E-MANIA HACKATHON	CENTER OF EXCELLENCE – IHOT ,MCET	7 <sup>TH</sup> MARCH 2025	I PRIZE
3	IV SEM	P.ANEESH	IOT DESIGN –E-MANIA HACKATHON	CENTER OF EXCELLENCE – IHOT ,MCET	7 <sup>TH</sup> MARCH 2025	I PRIZE
4	IV SEM	P.JHNASI RAGHAMAI	IOT DESIGN –E-MANIA HACKATHON	CENTER OF EXCELLENCE – IHOT ,MCET	7 <sup>TH</sup> MARCH 2025	III PRIZE
5	IV SEM	M.VAMSI	IOT DESIGN –E-MANIA HACKATHON	CENTER OF EXCELLENCE – IHOT ,MCET	7 <sup>TH</sup> MARCH 2025	III PRIZE
6	IV SEM	N.VAISHNAVI	IOT DESIGN –E-MANIA HACKATHON	CENTER OF EXCELLENCE – IHOT ,MCET	7 <sup>TH</sup> MARCH 2025	III PRIZE

✓ Sports Activities Participated

S.NO	SEMESTER	Name of the student	Name of the event	Venue	Date	Award
1	VI SEM	Mohammed Mujtaba Furkhan Ali	UDHBHAV 2024 National level TECHNO cultural sports fest , make and break event	VJIT, Hyd	1 <sup>st</sup> & 2 <sup>nd</sup> March 2024	Participation
2	VI SEM	Mohammed Mujtaba Furkhan Ali	UDHBHAV 2024 National level TECHNO cultural sports fest , E-Quiz	VJIT, Hyd	1 <sup>st</sup> & 2 <sup>nd</sup> March 2024	Participation
3	VI SEM	E Aravind	UDHBHAV 2024 National level TECHNO cultural sports fest , E-Quiz	VJIT, Hyd	1 <sup>st</sup> & 2 <sup>nd</sup> March 2024	Participation
4	VI SEM	E Aravind	UDHBHAV 2024 National level TECHNO cultural sports fest , make and break event	VJIT, Hyd	1 <sup>st</sup> & 2 <sup>nd</sup> March 2024	Participation
5	VI SEM	M Sridhar	UDHBHAV 2024 National level TECHNO cultural sports fest , make and break event	VJIT, Hyd	1 <sup>st</sup> & 2 <sup>nd</sup> March 2024	Participation
6	VI SEM	M Sridhar	UDHBHAV 2024 National level TECHNO cultural sports fest , E-Quiz	VJIT, Hyd	1 <sup>st</sup> & 2 <sup>nd</sup> March 2024	Participation
7	VI SEM	Md.Mujtaba Furkhan	A Two day national level technical event	Bhoj Reddy engineering college, Hyd	1-2 APRIL 2024	Participation
8	VI SEM	N JAGADESSWARA REDDY	A Two day national level technical event	Bhoj Reddy engineering college, Hyd	1-2 APRIL 2024	Participation
9	VI SEM	M Sridhar	A Two day national level technical event	Bhoj Reddy engineering college, Hyd	1-2 APRIL 2024	Participation
10	VI SEM	Ashwini omprakash	Design and implementation of D-Statcom aim to improve power quality	St.Martin's engineering college, Hyd	19 <sup>th</sup> , 20 <sup>th</sup> June 2024	Participation
11	VI SEM	Md.Mujtaba Furkhan Ali	Design and implementation of D-Statcom aim to improve power quality	St.Martin's engineering college, Hyd	19 <sup>th</sup> , 20 <sup>th</sup> June 2024	Participation
12	VI SEM	M Sridhar	Design and implementation of D-Statcom aim to improve power quality	St.Martin's engineering college, Hyd	19 <sup>th</sup> , 20 <sup>th</sup> June 2024	Participation
13	VI SEM	N Jagadeeswar reddy	GENOS'24 A National level technical symposium	JNTUH, Kukatpalli	JULY 2024	Participation
14	VI SEM	C Mukta Tejaswi	GENOS'24 A National level technical symposium	JNTUH, Kukatpalli	JULY 2024	Participation
15	VI SEM	N JAGADESSWARA REDDY	IOT using ARDUINO and RASPBERRY PI	HIEE EE PVT LTD, HYD	23-24 DEC 2023	Participation
16	VI SEM	C Mukta Tejaswi	One day career enhancement programme	Kalam's institute of youth	15 <sup>th</sup> OCT 2024	Participation &

				excellence		VOLUNTEER
17	VIII	N JAGADESSWARA REDDY	ANVESHANA 2025 A Regional level science and engineering fair	Hyderabad	7 <sup>th</sup> & 8 <sup>th</sup> Feb 2025	Participation
18	VIII	Bhukya Reetha Jaleja	ANVESHANA 2025 A Regional level science and engineering fair	Hyderabad	7 <sup>th</sup> & 8 <sup>th</sup> Feb 2025	Participation
19	VIII	D Elisha	ANVESHANA 2025 A Regional level science and engineering fair	Hyderabad	7 <sup>th</sup> & 8 <sup>th</sup> Feb 2025	Participation

✓ Awards and Honors Won

S.NO	SEMESTER	Name of the student	Name of the event	Venue	Date	Award
1	VI SEM	K JAIDEV	JIJNASA-2024 A NATIONAL LEVEL TECHNICAL EVENT -WORKING MODEL	BHOJ REDDY ENGINEERING COLLEGE FOR WOMEN	1 <sup>ST</sup> & 2 <sup>ND</sup> APRIL 2024	II PRIZE
2	VI SEM	D ELISHA	JIJNASA-2024 A NATIONAL LEVEL TECHNICAL EVENT -WORKING MODEL	BHOJ REDDY ENGINEERING COLLEGE FOR WOMEN	1 <sup>ST</sup> & 2 <sup>ND</sup> APRIL 2024	II PRIZE
3	VI SEM	B GOUTHAM	JIJNASA-2024 A NATIONAL LEVEL TECHNICAL EVENT -WORKING MODEL	BHOJ REDDY ENGINEERING COLLEGE FOR WOMEN	1 <sup>ST</sup> & 2 <sup>ND</sup> APRIL 2024	II PRIZE
4	VI SEM	N JAGADESSWARA REDDY	JIJNASA-2024 A NATIONAL LEVEL TECHNICAL EVENT -WORKING MODEL	BHOJ REDDY ENGINEERING COLLEGE FOR WOMEN	1 <sup>ST</sup> & 2 <sup>ND</sup> APRIL 2024	II PRIZE
5	IV SEM	KARISHMA NAAZ	JIJNASA-2024 A NATIONAL LEVEL TECHNICAL EVENT -PAPER PRESENTATION	BHOJ REDDY ENGINEERING COLLEGE FOR WOMEN	1 <sup>ST</sup> & 2 <sup>ND</sup> APRIL 2024	III PRIZE
6	IV SEM	P ANUSHA	JIJNASA-2024 A NATIONAL LEVEL TECHNICAL EVENT - PAPER PRESENTATION	BHOJ REDDY ENGINEERING COLLEGE FOR WOMEN	1 <sup>ST</sup> & 2 <sup>ND</sup> APRIL 2024	III PRIZE

✓ Student club and organization achievements

Club/Organisation	Achievement	Description/ID	Date	Remarks
IEEE 2023-24	Membership	Application of sensors in missile and launch vehicles: Future trends	29 <sup>th</sup> June 2024	94 students participated

✓ Cultural Activities

Event Name	Description	Date	Venue	Remarks
Freshers day	Its is celebrated to build a relation between juniors and seniors	14/10/2024	MCET	All the students are very happy to and involved in all the activities conducted
Bathak amma day	It is celebrated on the occasion of Dussera festival to impart tradition and culture of festivals in the students	20/10/2024	MCET	Students participated actively in the event
Traditional day	It is celebrated to show all the traditions in India and different kinds of culture in various parts of India , so that students will have the knowledge of our Indian culture and Tradition	12/01/2025	MCET	students participated in the event representing culture and tradition of various parts of India

✓ Parent- Teacher Meeting

Meeting Date	Description	Venue	Remarks
03-05-2024	Parent Teacher meeting is Conducted for IV sem and VI semester students	EEE Department staff room, C- Block	-

● Research and Development

✓ Research Projects and Grants

Project Title	Principal Investigator	Funding Agency	Grant Amount	Start Date	End Date	Remarks
Nil	Nil	Nil	Nil	Nil	Nil	Nil

✓ Publications in Journals

Sl.No.	Title of paper	Name of the author/s	Department of the teacher	Name of the journal	Year of publication	ISSN number	Indexing

1	Different prospective of deep learning medical image diagnosing	Dr Mahmad Mustafa	EEE	African Journal of Biological Sciences	2024	2663-2187	Scopus
2	A modified particle swarm optimization-based adaptive maximum power point tracking approach for proton exchange membrane fuel cells	Dr Bhukya Laxman	EEE	Franklin Open	2024	2773-1863	Scopus
3	SEPIC Based BLDC Motor Control for Electric Vehicles	Dr. Y. Mastanamma, A.Archana, Dr. B Laxman, K.Pullareddy, E.Saidulu	EEE	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2024	2321-9653	NA
4	Enhancing Power System Stability through Reactive Compensation with Static VAR Compensator	K. Pulla Reddy, Amulya Tadi, Dhanavath Elisha, Gallela Kiran, K Jaidev, M Venkatesh	EEE	International Journal of Innovative Science and Research Technology	2024	2456-2165	NA
5	Six Pulse Type Segmented Thyristor Controlled Reactor with Fixed Capacitor for Reactive Power Compensation	Namburi Nireekshana, A. Shiva, Md Mujtaba Furkhan Ali, M. Sridhar, Ashwini Omprakash, Kadari Shiva Kumar	EEE	International Journal of Innovative Science and Research Technology	2024	2456-2165	NA
6	Reactive Power Management through Inter Phase Power Controller	Namburi Nireekshana, Kadikekar Rahul, A. Archana, Barla Goutham, Mukka Akshay Kumar, N.	EEE	International Journal of Innovative Science and Research Technology	2024	2456-2165	NA

		Jagadeeswara Reddy						
7	Adaptive Reactive Power Management with Thyristor-Controlled Transformer and Fixed Capacitor	Namburi Nireekshana, G Sreedhar, Singani Aravind, K Ajay Kumar Reddy, Navuloori Praveen, K Giri Sai	EEE	International Journal of Innovative Science and Research Technology	2024	2456-2165	NA	
8	FACTS: Present and Future	Namburi Nireekshana, Saba Unissa, B. Reetha Jaleja, Cherala Mukta Tejaswi, Patta Mangathayaru Mahitha, P. Vaishnavi	EEE	International Journal of Innovative Science and Research Technology	2024	2456-2165	NA	
9	IOT Based Home Automation System	Namburi Nireekshana, P. Sowjanya, B. Sathish, G. Harika, K. Anvesh	EEE	International Journal for Multidisciplinary Research	2025	<b>2582-2160</b>	NA	
10	Transformer Safety Device	Namburi Nireekshana, Abdul Muneym, K.Nitesh, R. Akhil	EEE	International Journal for Multidisciplinary Research	2025	<b>2582-2160</b>	NA	

✓ Publications in Proceedings of Conferences

Sl. No.	Name of the teacher	Title of the paper	Title of the proceedings of the conference/Book/Book Chapter	Name of the conference	Year of publication	ISBN/ISSN number of the proceeding	Name of the publisher	Indexing
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1	Dr. Y. Mastanamma, Dr. B. Laxman, Dr. J. Ramesh Babu, Dr. N.Nireekshan, Mr. E. Saidulu	Electric Cargo Tricycle-A New Mobility	E3S Web of Conferences	2 <sup>nd</sup> International Conference on Renewable Energy, Green Computing and Sustainable Development	2025	eISSN: 2267-1242	EDP Sciences	Scopus
2	Dr. J. Ramesh Babu, M V D S Krishna Murty, Deva Rajashekar, and N. Susheela	ANN-Based Design of a Hybrid Renewable Energy System for Hybrid Electric Vehicle Applications	E3S Web of Conferences	2 <sup>nd</sup> International Conference on Renewable Energy, Green Computing and Sustainable Development	2025	eISSN: 2267-1242	EDP Sciences	Scopus
3	<u>Jarapala Ramesh Babu; Mahmad Mustafa; M V D S Krishna Murty; Deva Rajashekar; Y. Mastanamma; Manas Ranjan Nayak</u>	Efficient Energy Demand-Supply Forecasting via Deep Learning	IEEE	<u>1st International Conference on Sustainability and Technological Advancements in Engineering Domain (SUSTAINED)</u>	2024	979-8-3503-9165-7	IEEE	Scopus
4	Dr. Bhukya Laxman	Energy Harvesting for Sustainable IOT Applications: Challenges Opportunities, and Future Prospects	3 <sup>rd</sup> International Conference on Advances in Signal processing, VLSI, Communications, and Embedded Systems (ICSVCE-2024)	3 <sup>rd</sup> International Conference on Advances in Signal processing, VLSI, Communications, and Embedded Systems (ICSVCE-2024)	2024	(ICSVCE-2024)	AIP Publishing	Scopus
5	Dr. Mahmad Mustafa	Advancements in Battery Technology for Electric Vehicle: Challenges and Future Directions	3 <sup>rd</sup> International Conference on Advances in Signal processing, VLSI, Communications, and Embedded Systems (ICSVCE-2024)	3 <sup>rd</sup> International Conference on Advances in Signal processing, VLSI, Communications, and Embedded Systems (ICSVCE-2024)	2024	(ICSVCE-2024)	AIP Publishing	Scopus

6	Mrs. V. Saketha	Innovative Techniques in Energy Harvesting: Exploring Efficient Power Generation from Ambient Sources	3 <sup>rd</sup> International Conference on Advances in Signal processing, VLSI, Communications, and Embedded Systems (ICSVCE-2024)	3 <sup>rd</sup> International Conference on Advances in Signal processing, VLSI, Communications, and Embedded Systems (ICSVCE-2024)	2024	(ICSVCE-2024)	AIP Publishing	Scopus
7	Dr. Mahmad Mustafa, Dr. Y. Mastanamma, Dr. B. Laxman, Dr. J. Ramesh Babu,	Renewable Energy Resources	Sciro International Publishers	NA	2025	978-93-342-3324-7	Sciro International Publishers	NA
8	Dr. Prabhu G Benakop, Dr. Mahmad Mustafa, Dr. Y. Mastanamma, Mrs. V. Saketha	Microprocessors and Microcontrollers	Sciro International Publishers	NA	2025	978-93-342-5770-0	Sciro International Publishers	NA
9	Dr. Prabhu G Benakop, Dr. Mahmad Mustafa, Dr Lavanya Pamulaparty, Dr. T. Praveen	Computer Networks	Sciro International Publishers	NA	2025	978-93-342-7319-9	Sciro International Publishers	NA
10	Dr. B. Laxman, Dr. Mahmad Mustafa,	Control Systems	Sciro International Publishers	NA	2025	978-93-342-8191-0	Sciro International Publishers	NA
11	Mr. G. Mohan Krishna, Mrs. V. Saketha, Dr. P. Harish, Dr. Mahmad Mustafa	Fundamentals of Hybrid Electric Vehicles	Sciro International Publishers	NA	2025	978-93-342-5168-2	Sciro International Publishers	NA
12	Dr. Y. Mastanamma, Dr. Mahmad Mustafa	Power Quality Engineering	Sciro International Publishers	NA	2025	978-93-342-7516-7	Sciro International Publishers	NA

13	Dr. Y. Mastanamma, Dr. Mahmad Mustafa, Dr. B. Laxman, Mrs. V.Saketha	Electrical Safety and Standards	Sciro International Publishers	NA	2025	978-93-343-4943-6	Sciro International Publishers	NA
14	Dr. Y. Mastanamma, Dr. Mahmad Mustafa	Power Electronic Control of Electrical Drives	Sciro International Publishers	NA	2025	978-93-342-7516-2	Sciro International Publishers	NA

✓ Collaborations and Partnerships

Project Title	Collaborating Institution	Description	Start Date	End Date	Remarks
MoU1	Hyderabad Institute of Electrical Engineering	UG Projects	2021	2024	
MoU2	MEPAC Engineering solutions Pvt. Ltd.	UG Projects	2021	2024	
MoU3	Skilldzire Technologies Private Limited	Internships To Under Graduate Students	2021	2024	
MoU4	Pantech E Learning Pvt.Ltd	Internships To Under Graduate Students	2022	2025	
MoU5	PRAGYATMI KA the power of Intelligence	UG Projects	2023	2027	
MoU6	Magic Bus India Foundation	Internships / Projects	2025	2028	

✓ Patents, Innovations and Start-ups

Patent/ Innovation/ Start-up	Inventor(s)	Description	Date Filed	Status	Remarks

02	02	1.AI based Solar powered Electrical vehicle	(1)12.04.2024 (2)11.05.2024	Granted	Nil
		2.AI based Humanoid Robot for Industrial Applications		Granted	

✓ Research collaborations and Industry partnerships

Collaboration	Partner Organisation	Description	Start Date	End Date	Remarks
Research	Woosong University, South Korea	Fractional Order High Pass Filter Based Extremum Seeking Control for Grid Connected PV System	2022	Till date	

✓ Internships and Training Programs

Program Name	Description	Duration	Companies Involved	Number of Students
Summer Internships	Students are encouraged to take up Internships in industry during their summer vacation after VI SEM.	One Month	06	59

✓ Consultancy

Consultancy Project	Client Organisation	Description	Start Date	End Date	Remarks
Nil	Nil	Nil	Nil	Nil	Nil

● Placements

✓ Placement Statistics including Higher Education

Year	Total Students	Total students placed	Placement Percentage	Major Recruiters
2024-25	47	22	46.8%	NCR

- **Alumni updates**

- Alumni Meetings Conducted

Date	Location	Key Discussions	Number of Attendees	Outcomes
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3. Alumni achievements

Alumni Name	Achievement	Year	Recognition/ Award
M.Anil Goud	University rank	2023	9 <sup>th</sup> Rank

- Renowned Alumni

Alumni Name	Graduation Year	Field of Achievements	Notable Positions	Contribution/
Mallempalli Nishith	2024	GATE Ranker		
Nitin Sai chandra	2023	TCS	Associate system Engineer	
P.Rajender	2023	TTEC Digital Analytics India LLD	Systems software Associate Engineer	
Harinath	2024	KunUnbited Hyundai	Service advisor	
Revanth	2024	Jaguar and land Rover	Technician	

### Financial Report

✓ Budget Proposals and Utilisation

Category	Description	Proposed Budget	Utilised Budget	Remaining Budget	Notes
<b>Equipments (Hardware/ Software)</b>	Lab Equipment , Consumables, Repairs, Service , Component replacement	1,70,000	1,70,000	NIL	--
<b>Training Programs</b>	<ul style="list-style-type: none"> <li>· Staff participation in national &amp; international FDPs/Seminars/Workshops/ Conferences conducted by other organizations</li> <li>· Professional societies activities / Student workshops/Guest lectures / Engineer's day/ Industrial visits</li> </ul> Research & Development	3,60,000	3,60,000	NIL	--
<b>Miscellaneous</b>	Unforeseen expenditure	<b>50,000</b>	50,000	NIL	

## Community Engagement and Outreach

Programs conducted with NSS on Social Responsibility Initiatives

Program Name	Date	Location	Participants
International Day against Drug abuse and Illicit trafficking	26 <sup>th</sup> June 2024	Hyderabad	53
Basic Life Support Techniques	20 <sup>th</sup> June 2024	Hyderabad	60
Yoga Day	20 <sup>th</sup> June 2024	Hyderabad	85
Awareness Program on Child abuse , traffic and Hidden Cameras	22 <sup>nd</sup> April 2024	Hyderabad	02
NID-2024	3 <sup>rd</sup> March to 5 <sup>th</sup> March 2024	Hyderabad	16
Productivity Day	16 <sup>th</sup> February 2024	Hyderabad	28
World Wetlands Day	2 <sup>nd</sup> February 2024	Hyderabad	86
Blood Donation	20 <sup>th</sup> December 2023	Hyderabad	170
Health Camp	20 <sup>th</sup> December 2023	Hyderabad	31

**HOD/EEE**