



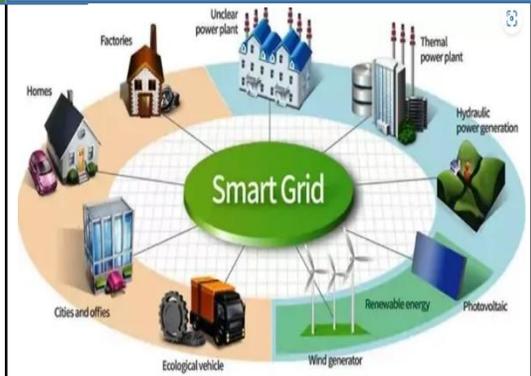
Jan 2025-Apr 2025 (Vol-21)

### Vision of EEE Department:

To become a role model department where students are nurtured to achieve multidisciplinary skills leading to their employability, research and can contribute to the society.

### Mission of EEE Department

1. To implement effective learning Strategies with a well-structured curriculum and assessment methods
2. To develop expertise in emerging technologies through collaboration with industry and Academic institutions.
3. To prepare socially responsible Engineers by promoting sustainable practices to address societal needs, enhance employability and contribute to the quality education.



#### Chief Editor

Dr.O.P. SURESH, HOD

#### Editors

Mrs. U. DIVYA, Asst. Professor

### Learning Strategies



HITAM-EEE  
News Letter



**HYDERABAD INSTITUTE OF TECHNOLOGY AND MANAGEMENT**  
**EEE DEPARTMENT**

***Program Educational Objectives***

**PEO1:** Graduates will have a successful technical or professional career, including supportive and leadership roles on multidisciplinary teams.

**PEO2:** Graduates will be able to acquire, use and develop skills as required for effective professional practices.

**PEO3:** Graduates will be able to attain holistic education which is an essential prerequisite for being a responsible member of society.

***Program Specific Outcomes***

**PSO1:** Analyze, Model, Test and provide engineering solutions in the areas related to electric drives, control, and power systems.

**PSO1:** Apply fundamentals of electrical engineering to simulate and develop electrical and electronic systems using MATLAB, and PSPICE tools.

## Department Events

- **II EEE students attend a one week EV Training on 10Feb 2025 to 15 Feb 2025.**



## Industrial Visits

- **II EEE students Visited National Institute of Technology Warangal, centre of Excellence for Digital manufacturing and Automation on 28/03/2025 .**



### Paper Presentation

<b>S.no</b>	<b>Faculty Name</b>	<b>Journal Name/Book chapter</b>	<b>Title</b>	<b>Year</b>
<b>1.</b>	P. Madhavi, S. V. Satyanarayana, P. S. Ogeti, S. M. S. Ali and S. M. Naik	International Conference on Cyber Physical Systems, Power Electronics and Electric Vehicles (ICPEEV)	Prediction of Power and Current for Self Charging E-Bicycle Using Machine Learning Algorithms	<b>2024</b>
<b>2.</b>	S. V. Satyanarayana, P. Madhavi, V. NavaKishore and P. S. Ogeti	International Conference on Cyber Physical Systems, Power Electronics and Electric Vehicles (ICPEEV)	Prediction of Voltage Discharge for Electric Tricycle Using Machine Learning Algorithms	<b>2024</b>
<b>3.</b>	Mr K. Suresh	Recent Advances In Sustainable Engineering and Future Technologies(RASEFT-2024)		27 <sup>th</sup> to 29 <sup>th</sup> DEC-2024

4.	Dr.M.Chiranjivi	ICREGCSD-2025	The Design of a single Phase Cascaded Quasi Z-Source Inverter with High Boost and Better THD	21 <sup>st</sup> to 22 <sup>nd</sup> FEB-2025
			Enhancing Smart Framing with Machine Learning Technologies (ICREGCSD-2025)	
5.	Mr S. V. Satyanarayana		<p><i>1.IoT-driven integrated smart lab predictive power and automation</i></p> <p><i>2. Building a Simple Arduino-Based Electric Doorbell,"</i></p>	FEB -2025
6.	Mrs T.Sirisha & U.Divya	Industrial Engineering Journal,	<p><i>1.Pcb-Based Digital Thermometer Design With 7-Segment Display For Accurate Temperature Monitoring</i></p> <p><i>2. A Low-Cost Dark Sensor System For Street Lighting</i></p>	Feb. 2025.
7.	Dr O.P Suresh	Industrial Engineering Journal	<p><i>1.DC Motor Speed Control Using ESP32</i></p> <p><i>2. A Smarter Way to Park :The future of Car Parking</i></p>	Feb. 2025.

8.	Mrs M.Rani &Mr M. Siddartha	ICEAAGE- 2025	Hybrid Renewable Energy Powered EV	25 <sup>th</sup> FEB- 20 25.
9.	Dr. M. Chiranjivi,Mr K.Suresh &Mr M.Raviteja	ICESM-2025	Efficient Battery Charging Method Using Alternative Energy Sources	11 <sup>th</sup> to 12th Mar- 2025
10.	MrsU. Divya, MrsT. Sirisha	NCRAPS2025	<p data-bbox="886 627 1256 1115"><i>A Comprehensive Health Management App to Improve Patient Doctor Communication and Accessibility jointly Organized by DIT University and Dehradun and National Institute of Technology, Uttarakhand in association MRSI, Chapter and ISDT DRDO dated on</i></p> <p data-bbox="886 1115 1256 1394">Automatic Light Intensity Control using LDR</p>	14 <sup>h</sup> to 15 <sup>th</sup> FEB- 2025.
11.	Mr K.Suresh	<i>Rademics Research Institute on</i>	Industrial IoT (IIoT)- Driven Predictive Maintenance and Reliability Analysis for Power Electronic Systems in Autonomous Manufacturing	Mar 2025

12.	Dr. M. Chiranjeevi	<i>Rademics Research Institute on</i>	Time-Sensitive Networking (TSN) and 6G-Enabled Communication Frameworks for Low-Latency Control of IoT-Powered Industrial Power Electronics	March 2025
13.	Mrs M. Rani & Mr M.Siddartha	<i>IJARESM-2025</i>	Generating Power Using Microturbine	Feb 2025
14.	U.Divya T.Sirisha M.Raviteja M.Rani M.Siddartha	<b>Patent</b>	<b>OBJECT-CENTRIC MASKED IMAGE MODELLING FOR SELF-SUPERVISED PRE-TRAINING IN REMOTE SENSING OBJECT DETECTION</b>	<b>Mar-2025</b>

- P. Madhavi, S. V. Satyanarayana, P. S. Ogeti, S. M. S. Ali and S. M. Naik, "Prediction of Power and Current for Self Charging E-Bicycle Using Machine Learning Algorithms," 2024 2nd International Conference on Cyber Physical Systems, Power Electronics and Electric Vehicles (ICPEEV), Hyderabad, India, 2024 (SCOPUS)
- S. V. Satyanarayana, P. Madhavi, V. NavaKishore and P. S. Ogeti, "Prediction of Voltage Discharge for Electric Tricycle Using Machine Learning Algorithms," 2024 2nd International Conference on Cyber Physical Systems, Power Electronics and Electric Vehicles (ICPEEV), Hyderabad, India, 2024 (SCOPUS).
- Dr. M. Chiranjeevi, working as Associate professor in EEE dept, Presented a paper titled "The Design of a single Phase Cascaded Quasi Z-Source Inverter with High Boost and Better THD" 2<sup>nd</sup> International Conference On Renewable Energy Green

Computing and Sustainable Development (ICREGCSD-2025) Organized by CVR College Of Engineering, Hyderabad dated on 21<sup>st</sup> to 22<sup>nd</sup> FEB-2025.



- Mr M. Siddartha, working as Assistant professor in EEE dept, Presented a paper titled “Hybrid Renewable Energy Powered EV” 2<sup>nd</sup> International Conference On Emerging Advances and Applications In Green Energy (ICEAAGE-2025) Organized by Prasad .V .Potluri Siddartha Institute Of Technology, Kanuru, Vijayawada, A.P dated on 25<sup>th</sup> FEB-20 25.



- Mrs M. Rani, working as Assistant professor in EEE dept, Presented a paper titled “Hybrid Renewable Energy Powered EV” 2<sup>nd</sup> International Conference On Emerging Advances and Applications In Green Energy (ICEAAGE-2025) Organized by Prasad .V .Potluri Siddartha Institute Of Technology, Kanuru, Vijayawada, A.P dated on 25<sup>th</sup> FEB-20 25.



- Dr. M. Chiranjeevi, working as Associate professor in EEE dept, Presented a paper titled “Enhancing Smart Framing with Machine Learning Technologies” 2<sup>nd</sup> International Conference On Renewable Energy Green Computing and Sustainable Development (ICREGCSD-2025) Organized by CVR College Of Engineering, Hyderabad dated on 21<sup>st</sup> to 22<sup>nd</sup> FEB-2025.



- Mr K.Suresh, working as Associate professor in EEE dept, Presented a paper titled “Efficient Battery Charging Method Using Alternative Energy Sources” International Conference On Engineering Science and Management (ICESM-2025) Organized by Guru Gobind College of Engineering and Research Centre, Nasik, Maharashtra dated on 11<sup>th</sup> to 12<sup>th</sup> Mar-2025.



- Dr. M. Chiranjivi, working as Associate professor in EEE dept, Presented a paper titled “Efficient Battery Charging Method Using Alternative Energy Sources” International Conference On Engineering Science and Management (ICESM-2025) Organized by *Guru Gobind College of Engineering and Research Centre, Nashik, Maharashtra* dated on 11<sup>th</sup> to 12<sup>th</sup> Mar-2025.



- Mrs U. Divya, working as Assistant professor in EEE dept, Presented a paper Entitled on” *A Comprehensive Health Management App to Improve Patient Doctor Communication and Accessibility*” in the *6th National Conference on Recent Advancement in Physical Sciences (NCRAPS2025)* jointly Organized by DIT University and Dehradun and National Institute of Technology, Uttarakhand in association MRSI, Chapter and ISDT DRDO dated on 14<sup>th</sup> to 15<sup>th</sup> FEB-2025.



- Mrs U.Divya, working as Assistant professor in EEE dept ,Presented a paper Entitled on” Automatic Light Intensity Control using LDR “ in the 6th Sciences6th National Conference on Recent Advancement in Physical Sciences (NCRAPS2025) jointly Organized by DIT University and Dehradun and National Institute of Technology, Uttarakhand in association MRSI, Chapter and ISDT DRDO dated on 14<sup>th</sup> to 15<sup>th</sup> FEB-2025.



- Mrs T.Sirisha, working as Assistant professor in EEE dept ,Presented a paper Entitled on”A Comprehensive Health Management App to Improve Patient Doctor Communication and Accessibility” in the 6th Sciences6th National Conference on Recent Advancement in Physical Sciences (NCRAPS2025) jointly Organized by DIT University and Dehradun and National Institute of Technology, Uttarakhand in association MRSI, Chapter and ISDT DRDO dated on 14<sup>th</sup> to 15<sup>th</sup> FEB-2025.



- Mrs T.Sirisha, working as Assistant professor in EEE dept ,Presented a paper Entitled on”Automatic Light Intensity Control using LDR” in the 6th Sciences6th National Conference on Recent Advancement in Physical Sciences (NCRAPS2025) jointly Organized by DIT University and Dehradun and National Institute of Technology, Uttarakhand in association MRSI, Chapter and ISDT DRDO dated on 14<sup>th</sup> to 15<sup>th</sup> FEB-2025.



- Mr.M. Ravi Teja, working as Assistant professor in EEE dept, Presented a paper titled “Efficient Battery Charging Method Using Alternative Energy Sources” International Conference On Engineering Science and Management (ICESM-2025)Organized by *Guru Gobind College of Engineering and Research Centre, Nasik, Maharashtra* dated on 11<sup>th</sup> to 12th Mar-2025.



- Mr K.Suresh, working as Associate professor in EEE dept, Published Book Chapter titled “**Industrial IoT (IIoT)-Driven Predictive Maintenance and Reliability Analysis for Power Electronic Systems in Autonomous Manufacturing**” at Rademics Research Institute on March 2025.

## Chapter 16

### Industrial IoT (IIoT)-Driven Predictive Maintenance and Reliability Analysis for Power Electronic Systems in Autonomous Manufacturing

<sup>1</sup>G. Karthikeyan, Assistant Professor, Department of Artificial Intelligence and Data Science, Coimbatore, Tamil Nadu, India [gkarthikeyan@hitam.com](mailto:gkarthikeyan@hitam.com)

<sup>2</sup>K. Suresh, Associate Professor, Department of Electrical and Electronics Engineering, Hyderabad Institute of Technology and Management, Telangana, India, [sureshk.eee@hitam.org](mailto:sureshk.eee@hitam.org)

#### Abstract

The integration of IIoT with predictive maintenance has transformed autonomous manufacturing by enhancing system reliability, minimizing downtime, and optimizing operational efficiency. The scalability and interoperability of IIoT-driven predictive maintenance systems remain critical challenges due to the heterogeneity of industrial assets, real-time data processing constraints, and cybersecurity vulnerabilities. This book chapter presents a comprehensive framework for scalable and interoperable IIoT-enabled predictive maintenance, addressing key aspects such as edge and fog computing, AI-driven resource allocation, and graph-based analytics for complex failure prediction. The chapter explores middleware solutions for seamless interoperability, resilience mechanisms for fault-tolerant security architectures, and autonomous edge-orchestrated maintenance strategies. It examines advanced data management techniques that enhance predictive analytics while ensuring cybersecurity and data integrity in large-scale industrial environments. By integrating cutting-edge

- Dr. M. Chiranjeevi, working as Associate professor in EEE dept, Published Book Chapter titled “Time-Sensitive Networking (TSN) and 6G-Enabled Communication Frameworks for Low-Latency Control of IoT-Powered Industrial Power Electronics” at Rademics Research Institute on March 2025.

## Chapter 1

### Time-Sensitive Networking (TSN) and 6G-Enabled Communication Frameworks for Low-Latency Control of IoT-Powered Industrial Power Electronics

<sup>1</sup>S. Ram Prasad, Assistant Professor, Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar, Tamil Nadu, [srpfxac@gmail.com](mailto:srpfxac@gmail.com)

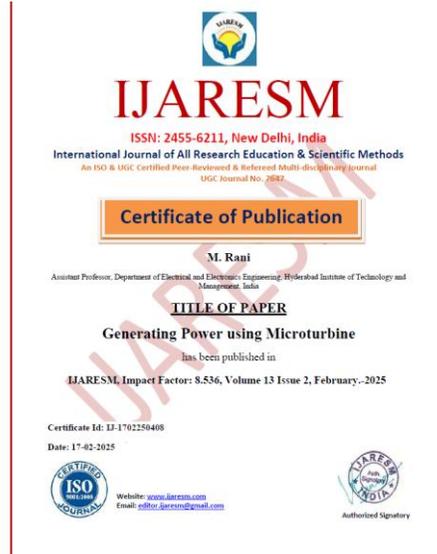
<sup>2</sup>M. Chiranjivi, Associate Professor, Department of Electrical and Electronics Engineering, Hyderabad Institute of Technology and Management, Telangana - 501401, [chiranjivimaddhuri@gmail.com](mailto:chiranjivimaddhuri@gmail.com)

#### Abstract

The rapid integration of Internet of Things (IoT) and power electronics was revolutionizing modern smart grids and industrial automation, enabling intelligent control, real-time monitoring, and predictive maintenance. The seamless deployment of IoT-driven power electronic systems presents critical challenges related to communication interoperability, cybersecurity risks, data privacy, and real-time decision-making. This book chapter explores the role of advanced AI-driven analytics, edge computing, and blockchain-enabled security frameworks in enhancing the efficiency, reliability, and resilience of IoT-controlled power infrastructures. It presents an in-depth analysis of privacy-preserving data analytics, anomaly detection techniques, and interoperability solutions for heterogeneous IoT communication protocols in power electronics applications. The chapter investigates the application of Edge AI for real-time power system optimization, ensuring low-latency control and autonomous fault diagnosis. The discussion also highlights cybersecurity challenges and privacy-preserving mechanisms, including federated learning, differential privacy, and blockchain-based authentication, to mitigate data security risks in IoT-based power monitoring systems. By addressing key research gaps and presenting next-generation solutions for IoT-driven power electronics, this work provides a comprehensive framework for designing secure, intelligent, and high-performance energy systems.

- Mrs M. Rani, working as Assistant professor in EEE dept, Published a paper titled “Generating Power Using Microturbine” in International Journal Of all Research Education &Scientific methods (IJARESM-2025) with ISSN:2455-6211, Volume No-

13,ISSUE-2,Feb-2025.



- Mr M.Siddartha, working as Assistant professor in EEE dept, Published a paper titled “Generating Power Using Microturbine” in International Journal Of all Research Education &Scientific methods (IJARESM-2025) with ISSN:2455-6211,Volume No-13,ISSUE-2,Feb-2025.



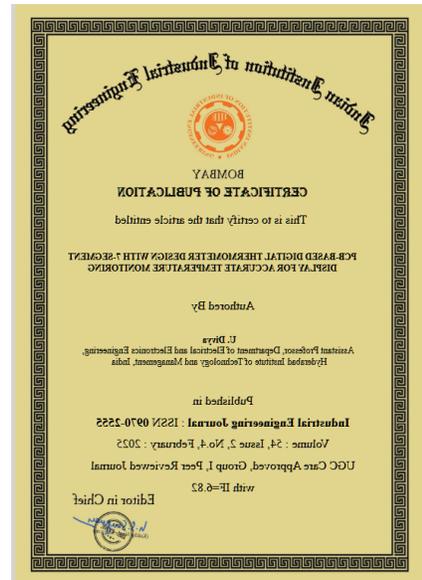
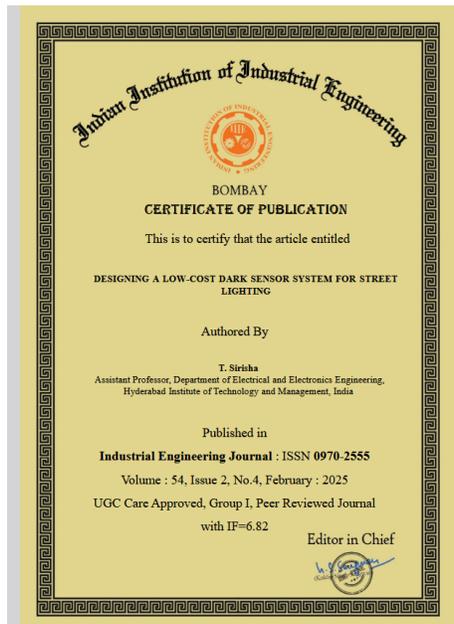
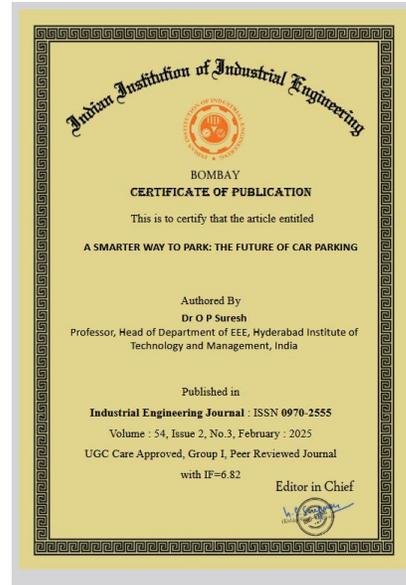
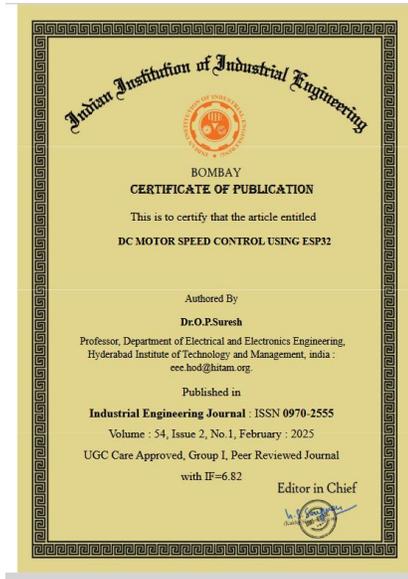
- Mr K. Suresh, working as Associate professor in EEE dept ,Attend two days conference in Recent Advances In Sustainable Engineering and Future Technologies (RASEFT-2024),sponsored by Matrusri Educational Society, Organized at MVSREC and MEC ,Hyderabad.Technically sponsored by IEEE Hyderabad held on 27<sup>th</sup> to 29<sup>th</sup> DEC-2024 .



- Dr M.Chiranjivi working as Associate professor in EEE dept ,Attend two days conference in Recent Advances In Sustainable Engineering and Future Technologies (RASEFT-2024),sponsored by Matrusri Educational Society, Organized at MVSREC and MEC ,Hyderabad.Technically sponsored by IEEE Hyderabad held on 27<sup>th</sup> to 29<sup>th</sup> DEC-2024



- Dr O.P Suresh "DC Motor Speed Control Using ESP32" *Industrial Engineering Journal*, vol. 54, no.1, Feb. 2025.
- Dr O.P Suresh " A Smarter Way to Park :The future of Car Parking" *Industrial Engineering Journal*, vol. 54, no. 3, Feb. 2025.
- Mr S. V. Satyanarayana, A. Vodnala, R. Sandeep, M. W. A. Ali, and S. S. Reddy, "IoT-driven integrated smart lab predictive power and automation," *Ind. Eng. J.*, vol. 54, no. 2, Feb. 2025.
- Mr S. V. Satyanarayana, C. S. Venkat, and K. Pavani, "Building a Simple Arduino-Based Electric Doorbell," *Industrial Engineering Journal*, vol. 54, no. 2, no. 3, Feb. 2025.
- Mrs T.Sirisha & U.Divya " Pcb-Based Digital Thermometer Design With 7-Segment Display For Accurate Temperature Monitoring" *Industrial Engineering Journal*, vol. 54, no. 4 , Feb. 2025.
- Mrs T.Sirisha & U.Divya " Designing A Low-Cost Dark Sensor System For Street Lighting" *Industrial Engineering Journal*, vol. 54, no. 4 , Feb. 2025.



- Mrs U.Divya, Mrs T.Sirisha, Mrs M. Rani, Mr M.Siddartha, Mr M.RaviTeja, working as Assistant professor in EEE dept, Published a patent titled **“OBJECT-CENTRIC MASKED IMAGE MODELLING FOR SELF-SUPERVISED PRE-TRAINING IN REMOTE SENSING OBJECT DETECTION”** dated on 21<sup>st</sup> Mar-2025.

Application Details	
APPLICATION NUMBER	202541019018
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/03/2025
APPLICANT NAME	Hyderabad Institute of Technology and management
TITLE OF INVENTION	OBJECT-CENTRIC MASKED IMAGE MODELLING FOR SELF-SUPERVISED PRE-TRAINING IN REMOTE SENSING OBJECT DETECTION
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	ipindiaoffice@gmail.com
ADDITIONAL EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (U/S 11A)	21/03/2025

**Form-5**  
**THE PATENT ACT 1970**  
**(39 of 1970)**  
**&**  
**Patent Rules, 2003**  
**DECLARATION AS TO INVENTORSHIP**  
**(See Section 10 and rule 13)**

**NAME OF APPLICANT:** Aditya T. Dr.S.Arvind, Professor, Hyderabad Institute of Technology and Management, Gowdareddy (Village), Near Kompally, Medchal (Mandal), Medchal-Malkajgiri (District), Telangana, India - 501401.

I hereby declare that the true and first inventor of the disclosed in the complete specification titled "Object-Centric Masked Image Modelling for Self-Supervised Pre-Training in Remote Sensing Object Detection" which is filed here with is

<b>INVENTOR 1</b>	(a) NAME : Jignamudhavya (b) NATIONALITY : Indian (c) ADDRESS : Hyderabad Institute of Technology and Management, Gowdareddy (Village), Near Kompally, Medchal (Mandal), Medchal-Malkajgiri (District), Telangana, India - 501401
<b>INVENTOR 2</b>	(a) NAME : HarangSirisha (b) NATIONALITY : Indian (c) ADDRESS : Hyderabad Institute of Technology and Management, Gowdareddy (Village), Near Kompally, Medchal (Mandal), Medchal-Malkajgiri (District), Telangana, India - 501401
<b>INVENTOR 3</b>	(a) NAME : Neha/Shivakumar (b) NATIONALITY : Indian (c) ADDRESS : Hyderabad Institute of Technology and Management, Gowdareddy (Village), Near Kompally, Medchal (Mandal), Medchal-Malkajgiri (District), Telangana, India - 501401
<b>INVENTOR 4</b>	(a) NAME : RavinrajMadala (b) NATIONALITY : Indian (c) ADDRESS : Hyderabad Institute of Technology and Management, Gowdareddy (Village), Near Kompally, Medchal (Mandal), Medchal-Malkajgiri (District), Telangana, India - 501401
<b>INVENTOR 5</b>	(a) NAME : P. Ramana (b) NATIONALITY : Indian (c) ADDRESS : Hyderabad Institute of Technology and Management, Gowdareddy (Village), Near Kompally, Medchal (Mandal), Medchal-Malkajgiri (District), Telangana, India - 501401
<b>INVENTOR 6</b>	(a) NAME : Shaik Meer Subhani Ali (b) NATIONALITY : Indian (c) ADDRESS : Hyderabad Institute of Technology and Management, Gowdareddy (Village), Near Kompally, Medchal (Mandal), Medchal-Malkajgiri (District), Telangana, India - 501401
<b>INVENTOR 7</b>	(a) NAME : M. Rani (b) NATIONALITY : Indian (c) ADDRESS : Hyderabad Institute of Technology and Management, Gowdareddy (Village), Near Kompally, Medchal (Mandal), Medchal-Malkajgiri (District), Telangana, India - 501401
<b>INVENTOR 8</b>	(a) NAME : MallarajSiddartha (b) NATIONALITY : Indian (c) ADDRESS : Hyderabad Institute of Technology and Management, Gowdareddy (Village), Near Kompally, Medchal (Mandal), Medchal-Malkajgiri (District), Telangana, India - 501401

## Faculty Participations

- Mrs U.Divya & T.Sirisha, working as Assistant professor in EEE dept ,Presented a paper Entitle on” AGRICULTURAL SUBSIDY “ in the 14th International Conference on Recent Challenges in Engineering and Technology Yenepoya University, Bhartiya City and IFERP Academy held on 26th - 27th April 2025 in Bangalore, India .
- Mrs T.Sirisha & U.Divya, working as Assistant professor in EEE dept ,Presented a paper Entitle on” OVER VOLTAGE AND UNDER VOLTAGE PROTECTION OF SINGLE PHASE DOMESTIC LOADS USING ARDUINO “ in the 14th International Conference on Recent Challenges in Engineering and Technology Yenepoya University, Bhartiya City and IFERP Academy held on 26th - 27th April 2025 in Bangalore, India






# CERTIFICATE

Of Participation  
This Certificate is Presented To

**Mrs U. Divya**

Assistant Professor, Dept. of Electrical and Electronics Engineering, Hyderabad Institute of Technology And Management, Hyderabad, Telangana, India.

**For attending and giving an oral presentation on the paper entitled**  
A Digital Platform for Agricultural Subsidy Assistance

at the **"International Conference on Recent Trends in Management, Engineering and Technology (ICMET 2025)"**- Jointly Organized by the Department of Mechanical Engineering, Vishwabharati Academy's College of Engineering, Ahilyanagar, Maharashtra, India & RSP Conference Hub, Coimbatore, Tamil Nadu, India on **29.04.2025 & 30.04.2025.**



**Mr. B. S. Hajare**  
HoD, Department of Mechanical Engineering, Vishwabharati Academy's College of Engineering, Ahilyanagar, Maharashtra, India.



**Dr. S. T. Dundur**  
Principal, Vishwabharati Academy's College of Engineering, Ahilyanagar, Maharashtra, India.




# CERTIFICATE

Of Participation  
This Certificate is Presented To

**Uggumudi .Divya**

Electrical And Electronics Engineering & Hyderabad Institution of Technology And Management

**For attending and giving an oral presentation on the paper entitled**  
Efficient Energy Flow Control in Regenerative Braking Using Automated Switches

at the **"International Conference on Recent Trends in Management, Engineering and Technology (ICMET 2025)"**- Jointly Organized by the Department of Mechanical Engineering, Vishwabharati Academy's College of Engineering, Ahilyanagar, Maharashtra, India & RSP Conference Hub, Coimbatore, Tamil Nadu, India on **29.04.2025 & 30.04.2025.**



**Mr. B. S. Hajare**  
HoD, Department of Mechanical Engineering, Vishwabharati Academy's College of Engineering, Ahilyanagar, Maharashtra, India.



**Dr. S. T. Dundur**  
Principal, Vishwabharati Academy's College of Engineering, Ahilyanagar, Maharashtra, India.

VAC & RSPCH ICMET 2025-328




# CERTIFICATE

Of Participation  
This Certificate is Presented To

**Thirlangi .Sirisha**

Electrical And Electronics Engineering & Hyderabad Institution of Technology And Management

**For attending and giving an oral presentation on the paper entitled**  
Efficient Energy Flow Control in Regenerative Braking Using Automated Switches

at the **"International Conference on Recent Trends in Management, Engineering and Technology (ICMET 2025)"**- Jointly Organized by the Department of Mechanical Engineering, Vishwabharati Academy's College of Engineering, Ahilyanagar, Maharashtra, India & RSP Conference Hub, Coimbatore, Tamil Nadu, India on **29.04.2025 & 30.04.2025.**



**Mr. B. S. Hajare**  
HoD, Department of Mechanical Engineering, Vishwabharati Academy's College of Engineering, Ahilyanagar, Maharashtra, India.

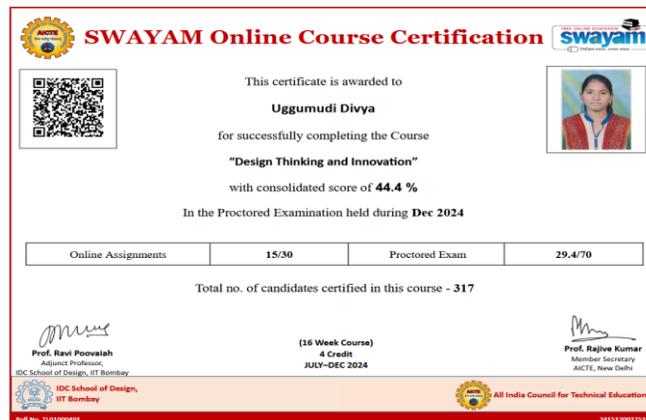


**Dr. S. T. Dundur**  
Principal, Vishwabharati Academy's College of Engineering, Ahilyanagar, Maharashtra, India.

VAC & RSPCH ICMET 2025-327

## Faculty Achievements

- Mrs U.Divya , Asst EEE Dept. Successfully completed the Course in “Design Thinking and Innovation “ with a consolidation score of 44.4% organized by NPTEL Online Certification on Jun\_Dec 2024.



- Mrs U. Divya, working as Assistant professor in EEE dept ,Won the “Individual Honorary Member” award Organized by VNRVJIT as a part of ICTIEE-2025 dated on 10<sup>th</sup> JAN-2025 .



- Mr S.V. Sathyanarayana , working as Associate professor in EEE dept ,Won the “Individual Honorary Member” award Organized by VNRVJIT as a part of ICTIEE-2025 dated on 10<sup>th</sup> JAN-2025 .

### Faculty Participations

S.no	Faculty Name	Participation Event Name	Organizing Institute	Title	Date &Year
1.	Mr M. Raviteja	<i>Certification Course</i>	NIELIT Calicut	Python For beginners	07 <sup>th</sup> to 11 <sup>st</sup> MAR- 2025

2.	Mr M. Raviteja	<i>Certification Course</i>	<i>LMS Solution</i>	<i>MATLAB Fundamentals</i>	11 <sup>st</sup> MAR-2025
3.	MrM.Siddartha	ATAL FDP	Hyderabad Institute Of Technology and Management	Smart Farming with Machine Learning: Sustainable Practices for Modern Agriculture	20 <sup>st</sup> to 25 <sup>th</sup> JAN-2025
4.	MrM.Ravi teja	ATAL FDP	Hyderabad Institute Of Technology and Management	Smart Farming with Machine Learning: Sustainable Practices for Modern Agriculture	20 <sup>st</sup> to 25 <sup>th</sup> JAN-2025
5.	Mrs M.Rani	ATAL FDP	Hyderabad Institute Of Technology and Management	Smart Farming with Machine Learning: Sustainable Practices for Modern Agriculture	20 <sup>st</sup> to 25 <sup>th</sup> JAN-2025
6.	Mrs U.Divya	ATAL FDP	Hyderabad Institute Of Technology and Management	Smart Farming with Machine Learning: Sustainable Practices for Modern	20 <sup>st</sup> to 25 <sup>th</sup> JAN-2025

				Agriculture	
7.	Mrs T.Sirisha	ATAL FDP	Hyderabad Institute Of Technology and Management	Smart Farming with Machine Learning: Sustainable Practices for Modern Agriculture	20 <sup>st</sup> to 25 <sup>th</sup> JAN-2025
8.	MrM.Siddartha	EPICS Orientation Workshop	Vardhaman College Of Engineering	EPICS	06 <sup>th</sup> JAN-2025
9.	MrM.Siddartha	ATEL FDP	<i>Shri Vishnu Engineering College For Women</i>	<i>AI empowered Electric Vehicles In Smart Grid System: Challenges And Opportunities</i>	10 <sup>th</sup> to 15 <sup>th</sup> FEB-2025
10	MrM.Raviteja	ATEL FDP	<i>Shri Vishnu Engineering College For Women</i>	<i>AI empowered Electric Vehicles In Smart Grid System: Challenges And Opportunities</i>	10 <sup>th</sup> to 15 <sup>th</sup> FEB-2025
11	Mrs M.Rani	ATEL FDP	<i>Shri Vishnu Engineering College For Women</i>	<i>AI empowered Electric Vehicles In Smart Grid System: Challenges And Opportunities</i>	10 <sup>th</sup> to 15 <sup>th</sup> FEB-2025
12	Mrs T.Sirisha	ATEL FDP	<i>Shri Vishnu Engineering College For Women</i>	<i>AI empowered Electric Vehicles In Smart Grid</i>	10 <sup>th</sup> to 15 <sup>th</sup>

				<i>System: Challenges And Opportunities</i>	FEB- 2025
13	Mrs U.Divya	ATEL FDP	<i>Shri Vishnu Engineering College For Women</i>	<i>AI empowered Electric Vehicles In Smart Grid System: Challenges And Opportunities</i>	10 <sup>th</sup> to 15 <sup>th</sup> FEB- 2025
14	MrM. Raviteja	ATEL FDP	Meenakshi Sundararajan Engineering College	<i>Energy and Electric Vehicles In India: Opportunities Challenges and Future</i>	27 <sup>th</sup> Jan to 01 <sup>st</sup> FEB- 2025.

- Mr M. Raviteja, working as Assistant professor in EEE dept, successfully Participated and Got the Certificate On” MATLAB Fundamentals“ Organized by LMS Solution dated on 11<sup>st</sup> MAR-2025



- Mr M. Raviteja, working as Assistant professor in EEE dept, successfully Participated and Got the Certificate Course On” Python For beginners“ Organized by NIELIT Calicut dated on 07<sup>th</sup> to 11<sup>st</sup> MAR-2025



- Mr M. Siddartha, working as Assistant professor in EEE dept , successfully Participated and completed AICTE Training and Learning (ATAL) Academy FDP on “Smart Farming with Machine Learning: Sustainable Practices for Modern Agriculture” Organized by Hyderabad Institute Of Technology and Management dated on 20<sup>st</sup> to 25<sup>th</sup> JAN-2025 .
- Mr M. Raviteja, working as Assistant professor in EEE dept, successfully Participated and completed AICTE Training and Learning (ATAL) Academy FDP on “Smart Farming with Machine Learning: Sustainable Practices for Modern Agriculture” Organized by Hyderabad Institute Of Technology and Management dated on 20<sup>st</sup> to 25<sup>th</sup> JAN-2025.
- Mrs U. Divya, working as Assistant professor in EEE dept, successfully Participated and completed AICTE Training and Learning (ATAL) Academy FDP on “Smart Farming with Machine Learning: Sustainable Practices for Modern Agriculture” Organized by Hyderabad Institute Of Technology and Management dated on 20<sup>st</sup> to 25<sup>th</sup> JAN-2025.
- Mrs T.Sirisha, working as Assistant professor in EEE dept ,successfully Participated and completed AICTE Training and Learning (ATAL) Academy FDP on “Smart Farming with Machine

Learning: Sustainable Practices for Modern Agriculture” Organized by Hyderabad Institute Of Technology and Management dated on 20<sup>st</sup> to 25<sup>th</sup> JAN-2025 .

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Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

[AICTE Training and Learning \(ATAL\) Academy](#)

**Certificate**

*It is certified that Mrs. madhuri rani, Assistant Professor of Hitam has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Smart Farming with Machine Learning: Sustainable Practices for Modern Agriculture" at HYDERABAD INSTITUTE OF TECHNOLOGY AND MANAGEMENT from 20/01/2025 to 25/01/2025.*

T SATHISH KUMAR  
Associate Professor Level (AICTE Institute), Coordinator  
HYDERABAD INSTITUTE OF TECHNOLOGY  
AND MANAGEMENT

Dr. Sunil Luthra  
Director & Bureau Head  
Training and Learning Bureau, AICTE

ATAL/2025/1737613220



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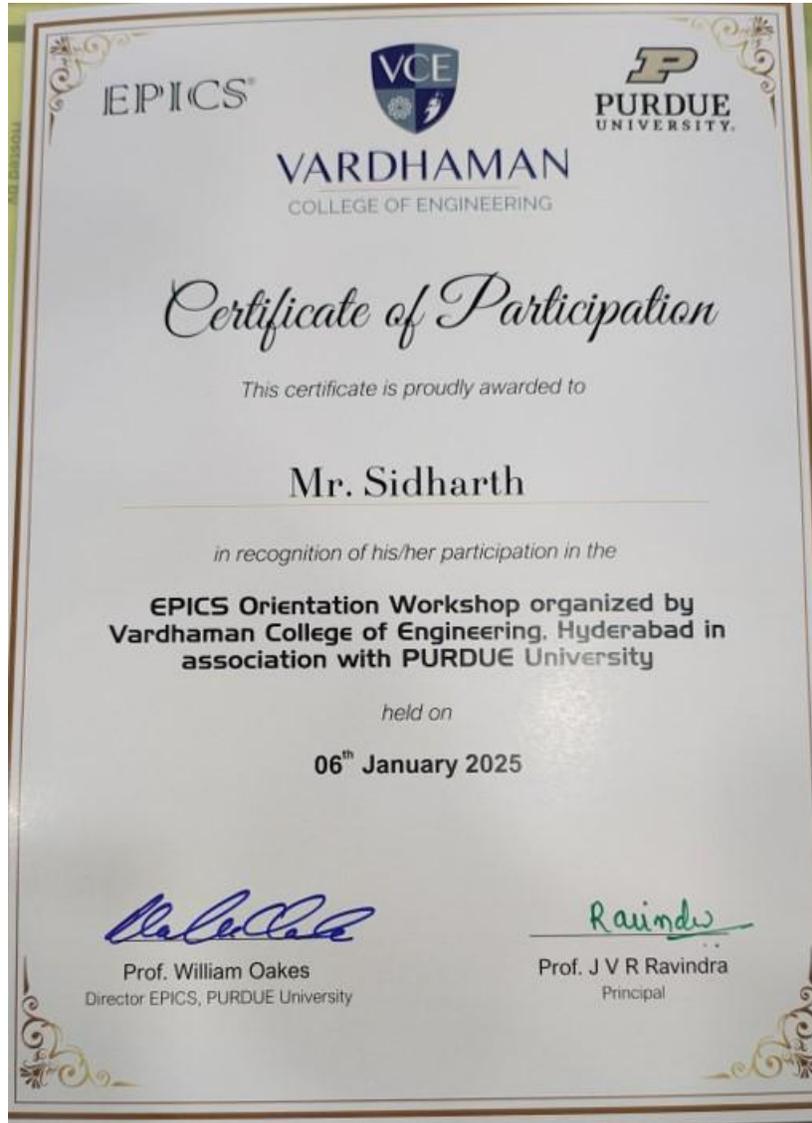
**Certificate**

*It is certified that Mr. MALLARAPU SIDDARtha, Assistant Professor of HITAM has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Smart Farming with Machine Learning: Sustainable Practices for Modern Agriculture" at HYDERABAD INSTITUTE OF TECHNOLOGY AND MANAGEMENT from 20/01/2025 to 25/01/2025.*

T SATHISH KUMAR  
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HYDERABAD INSTITUTE OF TECHNOLOGY  
AND MANAGEMENT

Dr. Sunil Luthra  
Director & Bureau Head  
Training and Learning Bureau, AICTE

- Mr M. Siddartha, working as Assistant professor in EEE dept ,successfully Participated in the “EPICS Orientation Workshop” Organized by Vardhaman College Of Engineering dated on 06<sup>th</sup> JAN-2025.



- Mr M. Raviteja, working as Assistant professor in EEE dept, successfully Participated and completed AICTE Training and Learning (ATAL) Academy FDP on “AI empowered Electric Vehicles In Smart Grid System: Challenges And Opportunities” Organized by Shri Vishnu Engineering College For Women dated on 10<sup>th</sup> to 15<sup>th</sup> FEB-2025.

- Mrs U. Divya, working as Assistant professor in EEE dept, successfully Participated and completed AICTE Training and Learning (ATAL) Academy FDP on “*AI empowered Electric Vehicles In Smart Grid System: Challenges And Opportunities*” Organized by *Shri Vishnu Engineering College For Women* dated on 10<sup>th</sup> to 15<sup>th</sup> FEB-2025.
  
- Mrs T.Sirisha, working as Assistant professor in EEE dept ,successfully Participated and completed AICTE Training and Learning (ATAL) Academy FDP “*AI empowered Electric Vehicles In Smart Grid System: Challenges And Opportunities*” Organized by *Shri Vishnu Engineering College For Women* dated on 10<sup>th</sup> to 15<sup>th</sup> FEB-2025.
  
- Mrs M.Rani, working as Assistant professor in EEE dept ,successfully Participated and completed AICTE Training and Learning (ATAL) Academy FDP “*AI empowered Electric Vehicles In Smart Grid System: Challenges And Opportunities*” Organized by *Shri Vishnu Engineering College For Women* dated on 10<sup>th</sup> to 15<sup>th</sup> FEB-2025 .
  
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- Mr M. Raviteja, working as Assistant professor in EEE dept, successfully Participated and completed AICTE Training and Learning (ATAL) Academy FDP on “*Energy and Electric Vehicles In India: Opportunities Challenges and Future* ” Organized by *Meenakshi Sundararajan Engineering College* dated on 27<sup>th</sup>Jan to 01<sup>st</sup> FEB-2025.





## **Student Achievements**

- B. Dinesh III- EEE Student Qualified GATE-2025 secure score 271 and marks18.33.

**GRADUATE APTITUDE TEST IN ENGINEERING 2025**  
अभियांत्रिकी स्नातक अभिक्षमता परीक्षा २०२५  
Organising Institute: INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

**SCORE CARD**

Name of the Candidate	BANOTH DINESH
Name of the Parent/Guardian	CHANDRABHANU
Registration No.	EE25S41515027
Date of Birth	November 5, 2004
Test Paper	Electrical Engineering (EE)
Date of Examination	February 2, 2025
GATE Score	271
Marks out of 100	18.33

**All India Rank (AIR) in the test paper:** 16066  
**Number of candidates appeared for the test paper:** 67701

**Qualifying Marks**  
General: 25.0  
EWS/OBC-NCL: 22.5  
SC/ST/PwD: 16.6

A candidate is considered **qualified** if the marks secured are greater than or equal to the qualifying marks mentioned for the category, for which a valid category certificate, if applicable, must be produced along with this Score Card.

Prof. P. Arunigam  
Organising Chairperson, GATE 2025

- R. Srujana III-EEE Student got the certificate of completion Course on Solutions Architecture Job Simulation on 28<sup>th</sup> Mar 2025.



- Pranav IV EEE Student participated in Kabadi sports Organised by MREM ,Hyderabad and won the First Prize.



- Manohar II EEE Student Presented Project in Epicthon2.0 on Digital Innovation in Land Surveying and Village Development (Software) in Shetty Group of Institutions, Kalaburagi, Karnataka Held on 25th March - 26th March 2025.



### **Student Participations**

- Mr.B. Ravi Teja, Studying in II EEE dept, Published a paper titled “Speed Control Of Induction Motor Using Wound Rotor Resistance Method in MATLAB” in Mukta Shabd Journal Volume XIV, ISSUE II February-2025.



**MUKT SHABD JOURNAL**

# Mukt Shabd Journal

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Certificate ID : MSJ/11465



UGC APPROVED



IMPACT FACTORS 4.6

## CERTIFICATE OF PUBLICATION

This is to certify that the paper entitled

### “SPEED CONTROL OF INDUCTION MOTOR USING WOUND ROTOR RESISTANCE METHOD IN MATLAB”

Authored by

Bolle Ravi Teja

ज्ञान-विज्ञान विमुक्तये

From

Hyderabad Institute of Technology and Management, Medchal, Telangana, India.

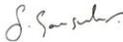
Has been published in

MUKT SHABD JOURNAL, VOLUME XIV, ISSUE II, FEBRUARY - 2025

DOI:09.0014.MSJ



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THE CITATION LINKING BACKBONE



**Sumit Ganguly**  
Editor-in-Chief  
MSJ  
[www.shabdbooks.com](http://www.shabdbooks.com)

- Mr.B. Ravi Teja, Studying in II EEE dept, Presented a paper titled “A Smart Hospital Management system For Symptom Based Care” in the 6<sup>th</sup> national Conference on Recent Advancement in Physical Science Organized by DIT University on 14-15 FEB 2025



- V. Ashritha & N Pravalika II-EEE Student got the certificate of completion Course on PLC Course on 12<sup>th</sup> Apr 2025.





- V. Ashiritha & N Pravalika II-EEE Student attend two -day Work Shop On “PCB DESIGN & FABRICATION” Organized by Department of EEE & ECE in Association with Robomonk Technologies, held at Hyderabad Institute Of Technology & Management, Hyderabad dated on 25<sup>th</sup> & 26 Apr 2025.





# CERTIFICATE OF PARTICIPATION



This is to certify that

Mr./Ms. N.PRAVALIKA (23E51A0208)

has actively participated in the Workshop on

**"PCB DESIGN & FABRICATION"**

organized by the

Department of EEE & ECE

in association with RoboMonk Technologies, held at

Hyderabad Institute of Technology & Management, Hyderabad

from 25-04-2025 to 26-04-2025



**R. Vikas Reddy**  
Director  
ROBOMONK TECHNOLOGIES

**Dr. M. Chiranjivi**  
ISF Coordinator  
HITAM

**Dr. S. Arvind**  
Principal  
HITAM

To verify the authenticity of this certificate, please email us at [info@robomonk.ai](mailto:info@robomonk.ai)

