



Sep 2024-Dec 2024 (Vol-20)

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: To excel in technical and professional careers in design and product realization, effectively meeting the demands of industry and organizations.

PEO2: To acquire foundational knowledge in mathematics, science, and electrical engineering, equipping them to pursue higher studies.

PEO3: To attain holistic education to enhance professional skills with changing societal needs

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.

Paper Publication

S.no	Faculty Name	Journal Name/Book chapter	Title	Year
1.	Dr.Ogeti Pedda Suresh	ELSEVIER Journal of Energy Storage (JES)	<i>Economic analysis of grid tied hybrid solar wind system with electric vehicle CS using COA-QN approach</i>	2024
2.	P. Madhavi, S. V. Satyanarayana	Parul International Conference on Engineering and Technology (PICET),	IoT & Sensor-Driven Automation in Streamlined Lab	10.1109/PI CET60765.2024.10716044
3.	Mr. K. Suresh, Dr.M. Chiranjivi, Dr O.P. Suresh, Mr. M. Siddartha	Indian Patent	IOT -Based Automatic Watering System for Efficient Water Management	09 th Nov 2024

- Ogeti Pedda Suresh, Chagam Reddy Subba Rami Reddy, Badathala Venkata Prasanth, Balapanur Mouli chandra, “*Economic analysis of grid tied hybrid solar wind system with electric vehicle CS using COA-QNN approach*” in ELSEVIER Journal of Energy Storage (JES), [Volume 100, Part A](#), 2024, Page 113448.

Research papers

Economic analysis of grid tied hybrid solar wind system with electric vehicle CS using COA-QNN approach

Ogeti Pedda Suresh^a  ,

Balapanur Mouli Chandra^b,

Chagam Reddy Subba Rami Reddy^c,

Badathala Venkata Prasanth^d

- *P. Madhavi, S. V. Satyanarayana, Y. Sannidhi, U. K. Mamindla, M. B. Puttapaka and M. S. Kumar, "IoT & Sensor-Driven Automation in Streamlined Lab," 2024 Parul International Conference on Engineering and Technology (PICET), Vadodara, India, 2024, pp. 1-6, doi: 10.1109/PICET60765.2024.10716044.*
- Mr. K. Suresh, Dr.M. Chiranjivi ,Dr O.P. Suresh, Mr. M. Siddartha, Mr. G. Chandrashekar, Mr. M. Rajeshwar, **“IOT -Based Automatic Watering System for Efficient Water Management”** with Application Number 202441086586 in Indian Patent Published on 09th Nov 2024.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441086586 A

(19) INDIA

(22) Date of filing of Application :09/11/2024

(43) Publication Date : 22/11/2024

(54) Title of the invention : IoT-Based Automatic Watering System for Efficient Water Management

(51) International classification	:A01G0027000000, A01G0025160000, A01M0097000000, A01G0009240000, A01G0025020000	(71)Name of Applicant : 1)Suresh k Address of Applicant :Gowdavelly village, Kompally, Medchal ----- ----- 2)Hyderabad Institute of Technology and Management Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)Mr. Suresh Kanaparthi Address of Applicant :Department of EEE, Hyderabad Institute of Technology and Management , Gowdavelly Village Near Kompally, Medchal (Mandal)- 501401, Telangana, India, Hyderabad -----
(86) International Filing Date	:NA	2)Dr.M.Chiranjivi Address of Applicant :Department of EEE, Hyderabad Institute of Technology and Management , Gowdavelly Village Near Kompally, Medchal (Mandal)- 501401, Telangana, India, Hyderabad -----
(87) International Publication No	: NA	3)Dr.O.P.Suresh Address of Applicant :Department of EEE, Hyderabad Institute of Technology and Management , Gowdavelly Village Near Kompally, Medchal (Mandal)- 501401, Telangana, India, Hyderabad -----
(61) Patent of Addition to Application Number	:NA	4)Mr.M.Siddartha Address of Applicant :Department of EEE, Hyderabad Institute of Technology and Management , Gowdavelly Village Near Kompally, Medchal (Mandal)- 501401, Telangana, India, Hyderabad -----
(62) Divisional to Application Number	:NA	5)Mr.G.Chandra sekhar Address of Applicant :Department of CSE, Hyderabad Institute of Technology and Management , Gowdavelly Village Near Kompally, Medchal (Mandal)- 501401, Telangana, India Hyderabad -----
(62) Divisional to Application Number	:NA	6)Mr.M.Rajeshwar Address of Applicant :Department of CSE, Hyderabad Institute of Technology and Management , Gowdavelly Village Near Kompally, Medchal (Mandal)- 501401, Telangana, India, Hyderabad -----

(57) Abstract :
The most important cultural practice in water management and perhaps the most labor-intensive task in the day-to-day operations connected to farming or gardening is watering. It is very crucial to regulate the volume of water that reaches plants during both hot and dry days and too cloudy and wet days. Modern water application systems can water when required. However, the time and quantity of water for administration are critical requirements of manual watering. All manual activities can be replaced with an automated plant watering system and, thus, make gardening easy. An automated plant watering system in a garden or agricultural field assists plants in reaching their maximum potential and saves water. Such a system can be designed for every plant in the yard by using sprinklers, drip emitters, or a combination of both. Sprinkler systems, pipes, and nozzles are used to enable the plant to be automatically watered. This is a project using an Arduino Uno microcontroller that detects the moisture content of the plants at a given time. In case the moisture content becomes lower than the threshold value set based on the particular plant's requirement for water, it gives the required quantity of water until the threshold value is achieved.

No. of Pages : 10 No. of Claims : 7

Faculty Participations

S.no	Faculty Name	Participation Event Name	Organizing Institute	Title	Date &Year
1.	K. Suresh	<i>FDP</i>	Stanley College of Engineering and Technology for women	Advance Trends on Microgrids, Smart Grids &Electric Vehicles	21 st to 25 th Oct,2024
2.	M. Siddartha	<i>FDP</i>	Stanley College of Engineering and Technology for women	Advance Trends on Microgrids, Smart Grids &Electric Vehicles	21 st to 25 th Oct,2024
3.	<i>Mr S.V. Sathyanarayana</i>	<i>1st international Conference ICASMMT-2024</i>		<i>Entitled Prediction of energy requirement and supply using supervised with Machine Learning Algorithms</i>	<i>13th-14th Sep ,2024.</i>
4.	<i>Dr Ogeti Pedda Suresh ,Pillalamarri Madhavi, Salava V Satyanarayana</i>	<i>ICPEEV 2024</i>	<i>IEEE sponsored</i>	<i>Prediction of Power and Current of Self Charging E-Bicycle Using Machine Learning Algorithms</i>	<i>on 26th September 2024</i>
5.	<i>S. V. Satyanarayana and P. Madhavi</i>	<i>Conference</i>	<i>Anurag University</i>	<i>Effectiveness of a PBL Curriculum in Preparing Electrical Engineering Students for Industry through SSDC</i>	<i>19-21 Dec 2024</i>

6.	<i>Mr.S.V. Satyanarayana</i>	<i>MATHED-2024</i>	<i>NIT Hamirpur</i>	<i>Leveraging Machine Learning Algorithms to predict and Optimize the smart Lightening usage for energy Efficiency</i>	<i>16th-18th Dec 2024</i>
----	----------------------------------	--------------------	---------------------	------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------

- Mr K. Suresh, working as assistant professor in EEE dept ,successfully completed the 5 days FDP on “Advance Trends on Microgrids, Smart Grids &Electric Vehicles” Organized by the Department of Electrical and Electronics Engineering , Stanley College of Engineering and Technology for women dated on 21st to 25th Oct,2024.
- Mr M. Siddartha, working as assistant professor in EEE dept ,successfully completed the 5 days FDP on “Advance Trends on Microgrids, Smart Grids &Electric Vehicles” Organized by the Department of Electrical and Electronics Engineering ,Stanley College of Engineering and Technology for women dated on 21st to 25th Oct,2024 .





- *Mr S.V. Sathyanarayana , Asst EEE Dept. Has presented the paper Entitled Prediction of energy requirement and supply using supervised with Machine Learning Algorithms and Got the certificate in 1st international Conference ICASMMT-2024 on 13th-14th Sep ,2024.*



- *Pillalamarri Madhavi, Salava V Satyanarayana, Pedda Suresh Ogeti, Shaik Meer Subhani Ali, Santosh Madeva Naik presented a paper in IEEE sponsored ICPEEV 2024 with title Prediction of Power and Current of Self Charging E-Bicycle Using Machine Learning Algorithms on 26th September 2024.*



- *S. V. Satyanarayana and P. Madhavi, "Effectiveness of a PBL Curriculum in Preparing Electrical Engineering Students for Industry through SSDC," J. Eng. Educ. Transform., vol. 38, no. SI-1, pp. 184–187, 2024, doi: 10.16920/jeet/2024/v38is1/24230 held in Anurag University, Hyderabad date on 19 & 21 Dec 2021*



- *S. V. Satyanarayana attend a conference on the title "Leveraging Machine Learning Algorithms to predict and Optimize the smart Lightning usage for energy Efficiency ," in MATHED-2024 held from 16th-18th Dec 2024 at NIT Hamirpur, H.P, India.*



1/1



➤ *III EEE STUDENTS* GOT THE CERTIFICATES FOR THE MS EXCEL AND PLC COURSES.



CERTIFICATE

OF ACHIEVEMENT

This is to certify that

Vikram Reddy Gottimukkala

has successfully completed 6 hours online course of
Free Online PLC Course
on September 30, 2024

Valid Certificate ID
de0087463494650e


S Bharadwaj Reddy
Automation Community



CERTIFICATE

OF ACHIEVEMENT

This is to certify that

Praveen Sai

has successfully completed 6 hours online course of
Free Online PLC Course
on September 30, 2024

Valid Certificate ID
3c1a2cc1926a2b2


S Bharadwaj Reddy
Automation Community



- Jakkannagari Sai Teja studied in III EEE, participated the lecture on “ULTRA LOW POWE SENSOR INTERFACES FOR IoT” Organised by IEEE SNIST SB sensor Council Chapter ON 1st November 2024.

CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

JAKKANNAGARISAITEJA

HAS SUCCESSFULLY ATTENDED THE DISTINGUISHED LECTURE ON

ULTRA LOW POWER SENSOR INTERFACES FOR IoT

ORGANISED BY IEEE SNIST SB Sensors Council Chapter
ON 1ST NOVEMBER 2024



DR G PRASAD ACHARYA
Faculty Advisor, IEEE SNIST
SC Chapter



DR SANGEETA SINGH
Chair, IEEE Sensors Council
Hyderabad Chapter

- Mr Manik Manohar got the participation certificate in Hackwave, a 24 hour hackthon ,on 9th & 10th NOV 024.



- Ms. K. Malleswari from the Hyderabad Institute of Technology & Management participated in the Paper Presentation event at ADVAYA-2K24, a national-level Management Fest organized by the Department of Management Studies on 21st & 22nd December, 2024.

