VISION

The Department of Electrical and Electronics Engineering strives to be a Centre of Excellence in Electrical Engineering in producing competent engineers.

MISSION

1. Adopt good teaching and learning methods
2. Ensure competency in the emerging technologies
3. To be accountable through self-evaluation and continuous improvement.

Collaborative Learning

The Flipped Classroom

Students practice applying key concepts with feedback

Students check their understanding and extend their learning

Collaborative Learning
HYDERABAD INSTITUTE OF TECHNOLOGY AND MANAGEMENT
EEE DEPARTMENT

Program Educational Objectives

PEO1: Graduates will have a successful technical or professional careers, 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 that 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, PSPICE tools.
### 1. Paper publications:

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Name of the publisher</th>
<th>Name of the topic</th>
<th>Name of the journal</th>
<th>Date of publication</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>O.P.SURESH,HOD</td>
<td>Stator voltage oriented control of doubly fed induction generator wind energy conversion system</td>
<td>International conference on Electrical, Electronics, computers, communication, Mechanical and computing(EECCMC)</td>
<td>28th and 29th January, 2018</td>
</tr>
<tr>
<td>2</td>
<td>O.P.SURESH,HOD</td>
<td>Recent Advances in power ,industrial drives and energy evolutionary Technologies(RAPIDEET-2018)</td>
<td>2nd Annual National conference in BVRIT</td>
<td>20th and 21st April-2018</td>
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</table>
2. **FDP:**

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Name of the faculty attended</th>
<th>Name of the topic</th>
<th>Objective</th>
<th>Venue &amp; Date of conduction / attended</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>O.P. SURESH, HOD</td>
<td>Engineering Exploration</td>
<td>To get more awareness on engineering education</td>
<td>May 14-18, 2018, KLE Technological university.</td>
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</tbody>
</table>
3. Achievements:

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Name of the event</th>
<th>Name of the people participated</th>
<th>Venue &amp; Date of the event</th>
<th>Prizes awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Toast masters international speech contest</td>
<td>Shiva raj, 4th EEE</td>
<td>27th Oct, 2018</td>
<td>Awarded for area level Humorous contest</td>
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</tbody>
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4. Achievements:

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<tbody>
<tr>
<td>1</td>
<td>SREEVISION 18 short film contest</td>
<td>N.karthik, 4th EEE</td>
<td>Sreenidhi Institute of science and Technology &amp; 20th sep 2018</td>
<td>Got second prize in the contest</td>
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</table>
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<td>1</td>
<td>S.V. Satyanarayana, Asst.Prof</td>
<td>Multifunctional Smart Energy System by Internet of Things</td>
<td>International journal of Engineering research and applications (IJERA)</td>
<td>November 2018</td>
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**ABSTRACT**

In present era, water scarcity occurs in agricultural sector. Therefore an automatic plant irrigation system has to be designed for the proper water supply in the fields. This project deals with an automatic plant irrigation system which automatically senses the moisture content by soil moisture sensor, Arduino Uno, motor driver and ESP8266 WiFi connector. It is programmed to sense the moisture content and provide sufficient water to irrigation system. A weather monitoring system, which can provide us the information of the weather in our neighboring environment. It can provide us with details about the surrounding temperature, barometric pressure, humidity, etc. we can calculate other data parameters such as the dew point. The components used in this prototype is the ESP8266 based WiFi connector, Arduino Uno, DHT sensors.

**Keywords** - Water scarcity, Plant irrigation system, Weather monitoring system, Dew point.

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**I. INTRODUCTION**

This project deals with Internet of Things (IOT). We will work on basics to advance level Arduino based IOT projects. Thereby we will gain great understanding of IOT and how IOT is going to change the way we live in the near future. Apart from gaining practical skills on Internet of Things, we will work with various sensors like DHT sensor, soil moisture sensor, Arduino Board including programming, ESP 8266 WiFi connector, Thingspeak IOT analytics and virtual mobile application.

We'll design and develop the following projects:
- Weather Monitoring System
- Smart Irrigation System

Irrigation is essentially the artificial supply of water to assist the growth and production of crops and any other vegetation. Irrigation is primarily used for agriculture. Different techniques and watering schemes are employed based on the topographical characteristics, the location and the crops sold. It is also used for landscape maintenance like domestic lawns, public parks and sports stadiums. Although irrigation as a technique existed since ages, some challenges co-existed with it. Increase in demand and dearth of water as a resource is the major challenge of irrigation system in present era. Efficiency of irrigation system has to be improved drastically. To counter these inefficiencies in traditional irrigation systems, a smart irrigation system is employed. A smart irrigation system is a combination of automated irrigation system and sensor network which is accessible remotely.

**II. SYSTEM REQUIREMENTS**

- ARDUINO
- ESP8266 WIFI CONNECTOR
- SOIL MOISTURE SENSOR
- MOTOR DRIVER
- DHT11 SENSOR
- THINGSPEAK

**SYSTEM DETAILS**

**III. NECESSITY OF THE SYSTEM**

As we know, there is water scarcity in irrigation field this project helps in preventing the wastage of water. Also it senses the weather conditions and provides sufficient amount of water required. The weather monitoring system is...
2. Achievements:

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Name of the event or Exam</th>
<th>Names of the people participated</th>
<th>Date of the Exam</th>
<th>Prizes awarded</th>
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<tbody>
<tr>
<td>1</td>
<td>NPTEL EXAM(Recent Advances in transmission insulators)</td>
<td>Ch. Suresh, Asst.prof</td>
<td>28th Oct 2018</td>
<td>67% (Elite)</td>
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<tr>
<td>2</td>
<td>NPTEL EXAM(Recent Advances in transmission insulators)</td>
<td>P. Madhavi, Asst.prof</td>
<td>28th Oct 2018</td>
<td>81% (Elite)</td>
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### 3. Paper publications:

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<tr>
<td>1</td>
<td>K.Poojitha, Asst.prof &amp; P.Madhavi, Asst.prof</td>
<td>Updation of Industrial sector by using smart grid Technologies and Applications</td>
<td>International conference on research Trends in Engineering Applied Science and Management(ICRTESM), IIJMTE</td>
<td>November , 4th 2018</td>
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4. Paper publications:

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</table>
SMS BASED WIRE LESS ELECTRONIC NOTICE BOARD USING GSM MOBILE PHONE

S.V. Satyanarayana, Asst. Prof
N. Ravi, Asst. Prof

International Journal of Management Technology and Engineering (IJMTE)

November 2018.
5) FDP:

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<th>Sl.No</th>
<th>Name of the event</th>
<th>Names of the people participated</th>
<th>Venue &amp; Date of the event</th>
<th>Brief note</th>
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<tbody>
<tr>
<td>1</td>
<td>Faculty development program.</td>
<td>K.Poojitha, Asst.prof P.Madhavi, Asst.prof</td>
<td>NIT Warangal, 17th -21st dec,2018</td>
<td>To identify the transformations in power Engineering .</td>
</tr>
</tbody>
</table>
This is to certify that _Pillalamarri Madhavi_ from HITAM, Medchal

has participated in 5-day Continuing Education Program on "Advanced Technologies in Power Engineering"
during 17th to 21st December 2018, sponsored by TEQIP-III, organized by Department of Electrical Engineering
National Institute of Technology, Warangal.

Dr. Chandrasekhar Yammni
Coordinator

Prof. L. Krishnanand
Coordinator, TEQIP-III

Prof. N.V. Ramana Rao
Director
DEPARTMENT OF ELECTRICAL ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL
As part of Diamond Jubilee Celebrations

CERTIFICATE

This is to certify that Kanakamedala Pojjitha
from HITAM, Medchal
has participated in 5-day Continuing Education Program on "Advanced Technologies in Power Engineering"
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Dr. Chandrasekhar Yammani
Coordinator

Prof. L. Krishnanand
Coordinator, TEQIP-III

Prof. N.V. Ramana Rao
Director