

**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)**

L.B. Reddy Nagar , Mylavaram-521 230. Andhra Pradesh, INDIA

Affiliated to JNTUK, Kakinada & Approved by AICTE New Delhi

New Delhi & Certified by ISO 9001:2015, <http://www.lbrce.ac.in>**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

Phone: 08659-222933/Extn: 203

hodsee@lbrce.ac.in, eeelbrce@gmail.com**Report of AICTE Training and Learning (ATAL) Academy Sponsored 2 Week Faculty Development Program on “IOT Based Green Energy Technologies from 17th October-29th October, 2022****Coordinator & Convener: Dr J.Sivavara Prasad****Co-coordinator: Dr K.R.L.Prasad****Program Schedule for 1st Week****Week 1 (17th OCT 2022-22nd OCT 2022) –Online (7:00PM-9:30PM)**

S.No	Date and Session	Name and details of Resource Person	Topic of Presentation	Online Link
1	17-10-2022 Session-1	Dr. Suresh Mikkili Associate Professor Department of Electrical Engineering National Institute of Technology Goa	Smart Electric Grid : Architecture, Indian Smart Grid Journey, Status of Pilot Projects, Smart Grid Challenges & Opportunities	https://tinyurl.com/ATAL-FDP-DAY1
2	18-10-2022 Session-2	Dr.Gurunath Gurralla, Associate Professor Department of Electrical Engineering, Indian Institute of Science, Bangalore	1.Sensing and analytic smart campus 2. Fault classification using symbolic dynamics	https://tinyurl.com/ATAL-FDP-DAY2
3	19-10-2022 Session-3	Dr. Kotni Srikumar, Professor of EEE & Principal JNTU-GV College of Engineering Vizianagaram.	Introduction to Green Technologies	https://tinyurl.com/ATAL-FDP-DAY3
4	20-10-2022 Session-4	Dr. M.Jaya Bharata Reddy, Professor Department of Electrical and Electronics Engineering NIT, Tiruchirapalli	Supervisory Control and Data Acquisition (SCADA) & Internet of Things (IOT)	https://tinyurl.com/ATAL-FDP-DAY4
5	21-10-2022 Session-5	Dr. Ch. Ramulu, Assistant Professor Department of Electrical Engineering National Institute of Technology, Warangal.	Introduction to Solar PV Induction Motor Based Water Pumping System & IoT Based Solar Power System	https://tinyurl.com/ATAL-FDP-DAY5
6	22-10-2022	Mr. Ramesh Babu Darla,	Solar Energy and IOT	https://tinyurl.com/ATAL-

Session-6	Sr. Engineer, Power CQT Cisco Systems (India) Private Limited Bangalore.	Applications	FDP-DAY6
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Program Schedule for 2nd Week

Week 2 (25th OCT 2022-29th OCT 2022) –Offline (9:00AM-4:30PM)

25-10-2022	26-10-2022	27-10-2022	28-10-2022	29-10-2022
9:00 – 9:30 Inauguration	9:00 – 10:00 Travel for Visit	9:00 – 11:30 Session 10 (ORB Energy, Bangalore)	9:00 – 11:30 Session 12 (Emsys Technologies, Coimbatore)	9:00 – 11:30 Session 14 (Dr. Narla Tatarao Thermal Power Station, Ibrahimpatnam Circle, Vijayawada)
9:30 – 11:30 Session 7 (Microchip Technology, Chennai)	10:00 – 12:30 Session 9 (Efftronics System, Guntur)	11:30 – 12:30 Article 2 Discussion	11:30 – 12:30 MCQs	11:30 – 12:30 Visit Report (Team)
11:30 – 12:30 Article 1 Discussion	12:30 – 1:30 Lunch	12:30 – 1:30 Lunch	12:30 – 1:30 Lunch	12:30 – 1:30 Lunch
12:30 – 1:30 Lunch	1:30 – 4:30 Visit (Efftronics System, Guntur)	1:30 – 3:30 Session 11 (ORB Energy, Bangalore)	1:30 – 3:30 Session 13 (Emsys Technologies, Coimbatore)	1:30 – 2:30 Reflection Journal
1:30 – 3:30 Session 8 (Microchip Technology, Chennai)	4:30 – 5:30 Travel back	3:30 – 4:45 Teaching Practice	3:30 – 4:45 Teaching Practice	2:30 – 3:30 Feedback
3:30 – 4:45 Teaching Practice				3:30 – 4:30 Valedictory

Report on Online Sessions (from 17th October -22nd October, 2022)

AICTE sponsored two-week faculty development program on “IOT based Green Energy Technologies” was conducted from 17th to 22nd October, 2022 in Online mode and from 25th to 29th October, 2022 in Offline mode. In this FDP, 50 participants are registered from 22 engineering colleges in Andhra Pradesh and Telangana states.

Dr. Suresh Mikkili, Associate Professor, Department of Electrical Engineering, NIT, GOA.



Session-1:

On 17th October, 2022, the following topics are discussed during the online session.

- Smart grid vision for India.
- Indian smart grid journey.
- NSGM-3 tier structure.
- Green energy challenges.
- Smart grid pilot projects.
- Advanced meter infrastructure
- EV Charging management

01:03:58

DM GT DB M NR DB K RA +46

Dr. Suresh Mikkili (Guest) g tabita (Guest) Dr. Madh... N NAGES... Dr. J. Siva V... Dr. B. Bal... Kishor... Raj Kumar...

Zoom Meeting

Participants

Type a name

Share invite

Waiting in lobby (1)

Withina sat (Guest) Meeting guest Admin...

Presenters (3) Mute all

RAVI KUMAR, A V Organizer

Dr. J. Siva Venkatesh Organizer

Dr. Suresh Mikkili (Guest) Meeting guest

g tabita (Guest) Meeting guest

K RAMALINGESWARA PRASAD Organizer

Attendees (15)

Arul Kumar Chinta (Guest) Meeting guest

ANJANEYULU NAIK, R Meeting guest

ASHOK KUMAR... (Guest) Meeting guest

Dr. Suresh Mikkili (Guest) National Institute of Technology Goa

Dr. Suresh Mikkili

Changing the Face of the Grid

Green ICT R, P, Q

Real-time Simulation

Wide-Area Reliability

Network Optimization

Customer Participation

Participation in Energy Markets

01:57:10

DM GT DB NR DB K RA NB +48

Dr. Suresh Mikkili (Guest) g tabita (Guest) Dr. Madh... N NAGES... Dr. J. Siva V... Dr. B. Bal... Kishor... Raj Kumar... NAGES...

Zoom Meeting

Participants

Type a name

Share invite

Presenters (3) Mute all

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g tabita (Guest) Meeting guest

K RAMALINGESWARA PRASAD Organizer

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Arul Kumar Chinta (Guest) Meeting guest

ANJANEYULU NAIK, R Meeting guest

ASHOK KUMAR... (Guest) Meeting guest

Animesh Wada (Guest) Meeting guest

BALAJI RAO (Guest) Meeting guest

Dr. Suresh Mikkili (Guest) National Institute of Technology Goa

Dr. Suresh Mikkili

Smart Grid Pilot Projects under IPDS (erstwhile R-APDRP Part-C)

Integrated Power Development Scheme (IPDS) - Restructured Accelerated Power Development and Reform Programs (R-APDRP)

Smart Grid Pilot Projects under IPDS (erstwhile R-APDRP Part-C)

- APJCL, Andhra
- APJCL, Assam
- APJCL, Bihar
- APJCL, Karnataka
- APJCL, Madhya Pradesh
- APJCL, Maharashtra
- APJCL, Odisha
- APJCL, Punjab
- APJCL, Rajasthan
- APJCL, Tamil Nadu
- APJCL, Uttar Pradesh
- APJCL, West Bengal
- APJCL, Jharkhand
- APJCL, Kerala
- APJCL, Gujarat

MAP Approved Smart Grid Pilot Projects

Smart Grid Pilot Projects under IPDS (erstwhile R-APDRP Part-C)



Session-2:

On 18th October, 2022, the following topics are discussed during the online session.

- Sensors and analytics for smart campus.
- Cyber security features in parallel and Analytics on parallel servers using FPGA.
- Power quality implementation.
- Hardware architectures for PMU.
- System on chip (both microprocessor and FPGA).
- Parallel board specifications.
- Implementation of PMU (Phasor Management unit) algorithms on FPGA
- Smart switch with sensing and also the overview of the platform



Session-3:

On 19th October, 2022, the following topics are discussed during the online session.

- Overview of various renewable energy sources.
- Energy efficient infrastructure management under IOT.
- Smart grid and smart city IOT solutions
- Awareness on technologies for green IOT.
- IOT applications

IoT Based Green Energy Technologies-Day3 (19-10-2022)

01:51:29

Request control People Chat Raise Rooms More Camera Mic Share Leave

Participants: RA, DR, BJ, S, PS, HB, M, UM (+44)

Presenters (5): RAVI KUMAR, A.V. (Organizer), Dr. J. Siva Vararasad, g tabita (Guest), K.RAMALINGESWARA PRASAD, srikumar (Guest)

Attendees (49): M S GIRIDHAR, 6Srilakshmi Cha... (Guest), ASHOK KUMAR ... (Guest), Avirmeni Veda Sri (Guest), badugu jayababu (Guest)

Smart Grid & Smart City IoT Solutions

- From source to load we make the grid efficient and reliable
- From downtown to suburb, we deliver urban efficiency today

Smart Grid Operator: "IoT integration from field to control center to enterprise"

Smart Generator: "Producing power efficiently"

Energy Services Provider: "Bridging supply & demand"

Renewable Operator: "Making renewable dispatchable"

Smart Buildings & Homes

Smart Energy

Smart Water

Smart Mobility

Smart Public Services

Smart Data Center

Smart Integration

IoT Based Green Energy Technologies-Day3 (19-10-2022)

02:03:18

Request control People Chat Raise Rooms More Camera Mic Share Leave

Participants: RA, DR, BJ, S, PS, HB, M, UM (+43)

Presenters (5): RAVI KUMAR, A.V. (Organizer), Dr. J. Siva Vararasad, g tabita (Guest), K.RAMALINGESWARA PRASAD, srikumar (Guest)

Attendees (48): M S GIRIDHAR, 6Srilakshmi Cha... (Guest), ASHOK KUMAR ... (Guest), Avirmeni Veda Sri (Guest), badugu jayababu (Guest)

Enabling Technologies for IoT

Enablers	Advantages	Disadvantages
Green Tags – RFID	<ul style="list-style-type: none"> • Small • Easily to Integrate • Non Line of Sight • Cheap 	<ul style="list-style-type: none"> • Active tags require battery • Low transmission range • Tags are difficult to Recycle
Green Sensing Networks	<ul style="list-style-type: none"> • Helps us understand our environment • Energy Efficient • Could be battery-less (power harvesting) 	<ul style="list-style-type: none"> • Batteries need to be changed • Sensors will eventually have to be disposed
Green Internet Technologies – Cloud	<ul style="list-style-type: none"> • High-performance computing • High-capacity storage • Financially beneficial • Outsourced management 	<ul style="list-style-type: none"> • Massive energy consumption -> CO2 footprint

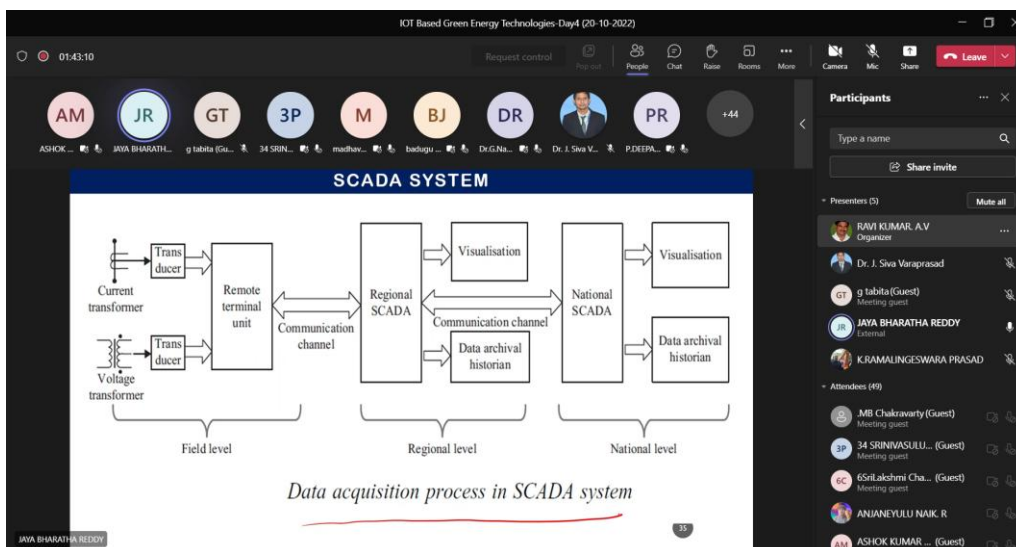
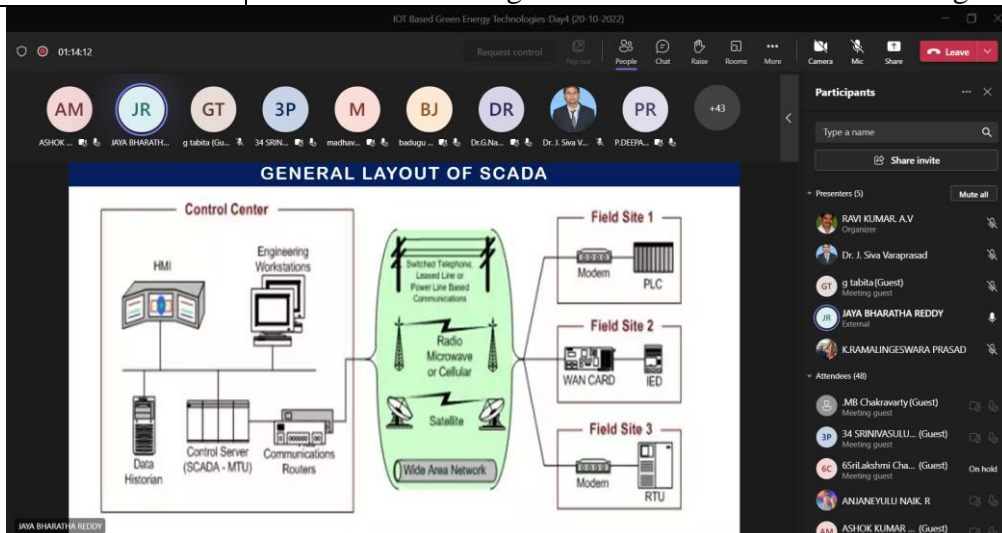
Diagram illustrating the components of Green IoT systems: INTERNET, Cloud Computing, Smart Grid, Smart Buildings, Smart Energy, Smart Water, Smart Mobility, Smart Public Services, Smart Data Center, Smart Integration, and Green IoT systems.



Session-4:

On 20th October, 2022, the following topics are discussed during the online session.

- Basic idea of IOT and its applications.
- SCADA system in power systems and its components which include RTUs, PLCs, IEDs (Intelligent Electronics devices).
- SCADA architectures-First generation (Monolithic), second generation (Distributed) and third generation (IOT-networked).
- IOT role in SCADA.
- SCADA for Microgrid.
- Microgrid architectures.
- Microgrid components.
- Microgrid Energy storage systems.
- Different loads (Critical loads, non-critical and reschedule loads).
- Microgrid challenges.
- Micro grid control-hierarchical control.
- Standalone and grid connected modes and Islanding mode





Session-5:

On 21st October, 2022, the following topics are discussed during the online session.

- Standalone and grid connected PV systems.
- Standalone applications like solar water pumping used in agriculture and buildings.
- Solar PV fed water pumping system.
- Solar model, Block diagram, control algorithm for 3-phase 2-level H- bridge inverter connected star connected induction motor pump and also covered results.
- Space vector PWM technique
- 3-phase 3-level/4 -level inverter connected induction motor pump and also covered results.
- IOT based solar system
- IOT components, solar photovoltaic remote monitoring systems using IOT, its flowchart
- smart solar tracker with solar energy monitoring

Solar PV Overview

The slide illustrates the architecture of solar PV water pumping systems. It compares two main approaches: Solar PV fed DC-Motor and Solar PV fed Induction-Motor. The DC-Motor system is shown with a PV array connected to a DC-DC converter (MPPT) and a DC Motor. The Induction-Motor system is shown with a PV array connected to a Two-Stage System (DC-DC converter followed by an inverter) or a Single-Stage System (inverter directly connected to the PV array). The slide also lists 'Proposed Systems' such as Six-Step quasi square wave inverter, Closed loop Vector Control PV Pumping system, PV Pumping system with MPPT & Minimum Losses point tracking, Conventional Two-level, Cascaded Three-level, and Dual-inverter with isolated sources. Handwritten notes in red and blue ink are present on the slide, including 'G (Sun)', 'T', 'Solar Energy → DC-DC', 'DC Motor (48-48V)', 'Completed via a dc-dc converter', 'PCC', 'In Literature', and 'Results in poor performance and lesser effici'.

1. Three-phase two-level H-Bridge inverter connected to the star connected induction motor-pump:

The slide displays a schematic circuit diagram. On the left, a Solar PV array is connected to a P & O MPPT block. The output of the MPPT is connected to a Two-Level Inverter. The inverter consists of six IGBTs (S₁ to S₆) and six diodes (D₁ to D₆) in a two-level H-bridge configuration. The inverter's output is connected to a star-connected IM-Pump. The diagram shows the flow of current (I_{pv}, I_{dc}, I_a, I_b, I_c) and the application of gate drive pulses. A 'Water Discharge' icon is shown connected to the pump. Below the diagram, a control block is labeled 'SVPWM and V/f control'. The caption below the diagram reads: 'Figure 8. Schematic circuit diagram of PV powered three-phase two-level H-bridge inverter connected to the induction motor-pump.'

Mr. Ramesh Babu Darla, Sr Engineer – Power CQT, T&Q, Cisco Systems India, Bangalore.



Session-6:

On 22nd October, 2022, the following topics are discussed during the online session.

- Benefits of IOT solar PV Systems.
- Consumer and enterprise IOT applications.
- Battery performance.
- Controllers -basics, features, inverter controllers.
- PV calculations
- Balance of systems (BOS) and selections
- System design considerations.
- Product design methodology
- Power components selection explained with the help of converter
- Case study-I: IOT based automatic load and power balancer

The smart world of the future – using IOT

Source:
<https://www.forbes.com/sites/jacobmorgan/2014/05/13/simple-explanation-internet-things-that-anyone-can-understand/#ef2433f1d091>

Participants: Ravi Kumar, A.V. (Organizer), Darla Ramesh Babu (External), Dr. J. Siva Varaprasad, g Labita (Guest), K.RAMALINGESWARA PRASAD, LEEILA SATYANA... (Meeting guest), Avimieni Veda Sri (Guest), B.EEDUKONDALU (External), badugu jayababu (Guest), BALAKRISHNANALLAMOTHU (External).

Power Components Selection

- Voltage
- Current
- Voltage drop
- On state resistance
- Reverse recovery time
- Input and output capacitances
- Thermal resistance
- Junction temperature
- Device temperature
- Ripple currents
- Equivalent series resistance

Participants: Dr. J. Siva V., DARLA RAMESH BABU, LM.V.KL., PANAV..., BALAKR..., P.DEEPA..., krishna..., KRAMALIN..., pangel... (42).

Report on Offline Sessions (from 25th October -29th October, 2022)

Inaugural Function (25th October, 2022)



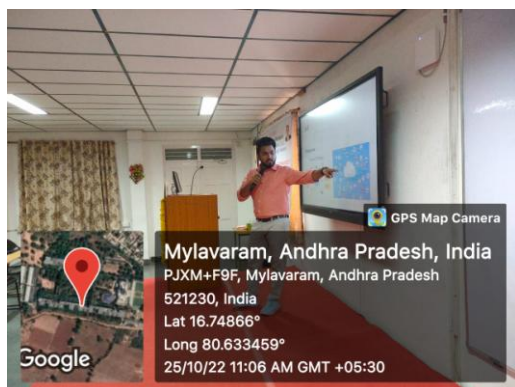
Mr. Yadla Naresh, Engineer-II software, Microchip Technology Pvt. Ltd., Chennai.

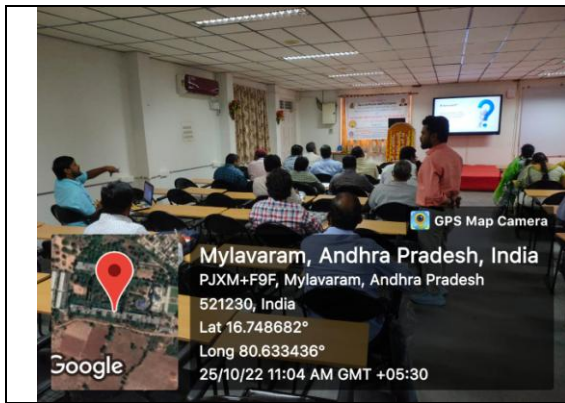


Sessions-7 & 8:

On 25th October, 2022, the following topics are discussed during the offline session.

- Introduction IOT.
- IOT process.
- IOT development in industries.
- Technology developments in IOT.
- Practice in Computer Lab





ARTICLE-I DISCUSSION



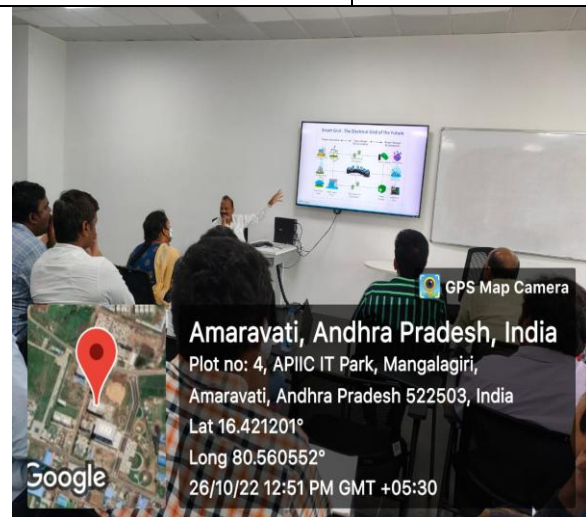
Mr. Rama Krishna, CEO, Efftronics Mangalagiri



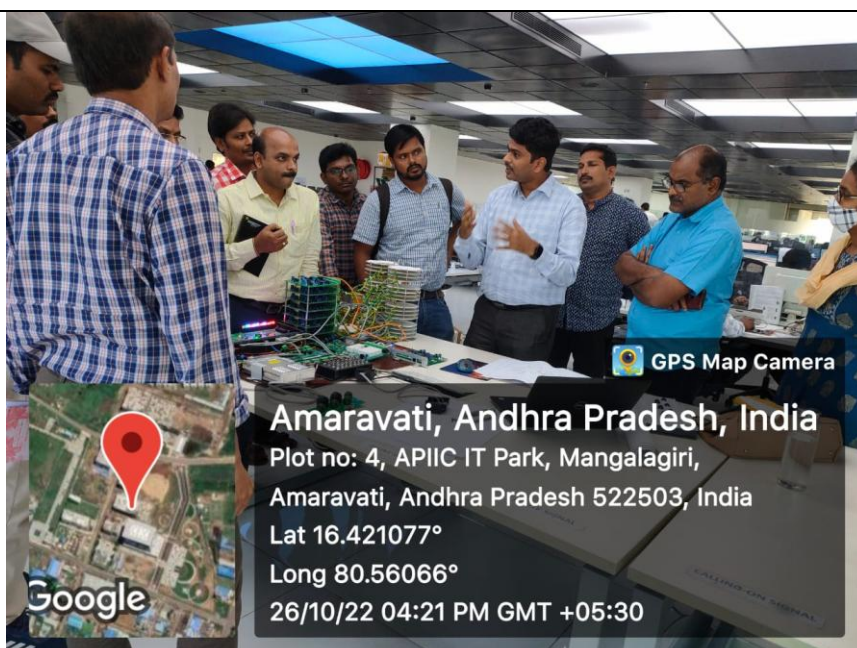
Session-9:

On 26th October, 2022, the following topics are discussed during the offline session.

- Types of renewable Energy Technologies
- IOT role in renewable systems
- Case studies and sensors
- Design of IOT trainer modules
- Different IOT applications
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Field visit- Efftronics, Mangalagiri



Mr. G.V.Siva kumar, Assistant General Manager-Projects, ORB Energy Pvt Ltd, Bangalore.



Session-10:

On 27th October, 2022, the following topics are discussed during the offline session.

- Overview of ORB Solar Park.
- Mono and Poly crystal modules.
- 25MW solar park construction
- Investments on solar park.
- Comparison of unit cost over the years.



ARTICLE-II DISCUSSION



Mr. SK.Subhani, Technical Manager, ORB Energy Pvt Ltd, Bangalore.



Session-11:

On 27th October, 2022, the following topics are discussed during the offline session.

- Overview of solar grid inverter.
- Solar modules by site visiting



Mr. M.Mathan Kumar, R&D Engineer, EMSYS Technologies, Coimbatore.



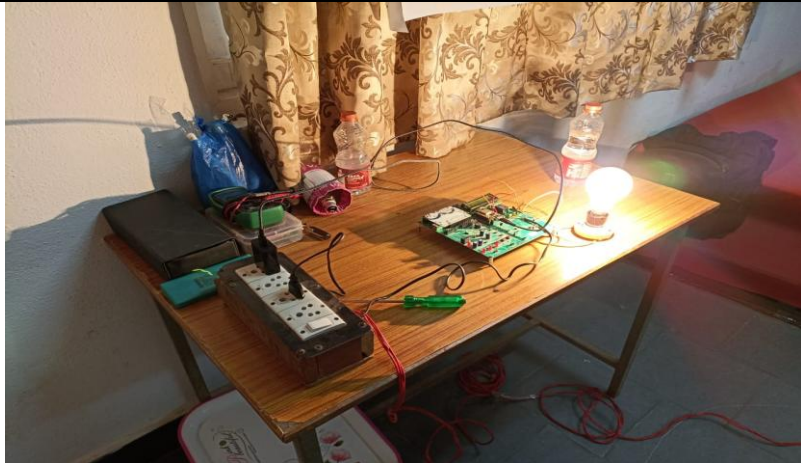
Session-12 & 13:

On 28th October, 2022, the following topics are discussed during the offline session.

- Technologies enable IOT.
- Life cycle of IOT
- List of cloud providers.
- Design of converters in MATLAB.
- Home automation.
- IOT solar PV technology
- Real time projects

GPS Map Camera

Mylavaram, Andhra Pradesh, India
PJXM+F9F, Mylavaram, Andhra Pradesh
521230, India
Lat 16.748707°
Long 80.633441°
28/10/22 12:33 PM GMT +05:30



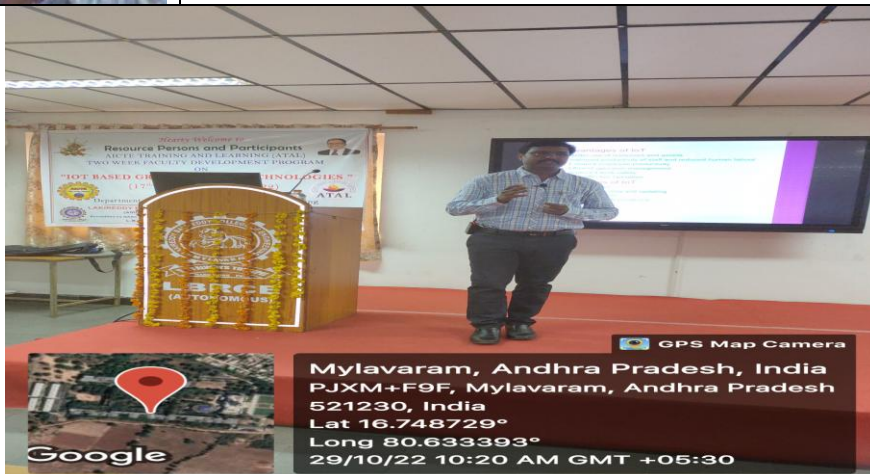
Mr. G.Prasada Rao, Assistant Executive Engineer, Dr.NTTPS, Ibrahimpatnam.



Session-14:

On 29th October, 2022, the following topics are discussed during the offline session.

- Structure of thermal power plant.
- Components of coal handling plant.
- Layout of CHP.
- Working of steam turbines.
- IOT development in Power plant



GPS Map Camera
Mylavaram, Andhra Pradesh, India
 PJXM+F9F, Mylavaram, Andhra Pradesh
 521230, India
 Lat 16.748729°
 Long 80.633393°
 29/10/22 10:20 AM GMT +05:30



Feedback given by the participants



Valedictory Function



Awards to best participants



LIST OF THE PARTICIPANTS

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Dr J.Sivavara Prasad
Coordinator & Convener
Department of EEE
LBRCE