

REPORT ON WORKSHOP

Title: SOLAR & SMART ENERGY

Nalla Narasimha Reddy Educational Society's Group of Institutions School of Engineering Department of Electrical & Electronics Engineering had organized A Two day technical Workshop on "SOLAR & SMART ENERGY" on 26th & 27th February-2019 this workshop is organized in association with **Innovians Technologies, Hyderabad.**

The Resource person arrived at 09.30 am and he was welcomed by Dr. P. Ramesh, Professor & HoD Department of EEE.

Inaugural function of workshop was started at 9:50 am in the presence of Chief guest Director Dr. C. V Krishna Reddy garu, Dean-SOE Dr. G. Janardhana Raju, HOD-EEE Dr. P. Ramesh, Resource person Mr Prateek Gupta, faculty members of EEE department and student participants.

The Resource person was formally felicitated by Dr. P. Ramesh, HoD & Professor, Department of EEE with a floral Bouquet. All the dignitaries were welcomed on to the dias by Mr D. Ramesh Babu, Assistant Professor -EEE Dept. and he gave an introductory speech about resource person. Dr. P. Ramesh, HoD-EEE gave a speech about workshop importance and advised all the participants to use it effectively. Chief guest Director Dr. C. V Krishna Reddy gave a speech and motivated students to learn better and emphasized the NNRG management efforts for student's academic welfare.

40 students from III year of EEE department attended the workshop.

On 26th February-2019(Day 1) at 10:30 am Resource person started the workshop with introductory lecture about Solar Energy. He stated that,

The dominance of Solar Energy need and Applications are discussed he is completely focused on Solar Thermal, Solar Electricity, Smart Energy System and Other Renewable Energy Technologies

He discussed about how photovoltaic cells work, Solar cell efficiency Factors affecting cell performance, Solar panel specifications, Photovoltaic System Components.

Later on explained about Solar Panel Testing, Harnessing Solar Energy for powering home appliances. And also how batteries work, how digital sensor works, detect an object with your digital sensor and How to detect traffic density

Day 2:

27th February-2019, at 9:15 resource persons started the practical usage of solar panels with an Assignment work and assisted students to learn it.

He discussed about Arduino Programming Basics, Installation for Arduino Software, Software installation, Graphical Programming Basics

Assignments on

- Exercise 1: Simple Led Program
- Exercise 2: Led Blinking

All the students were doing solar projects

Project 1: Traffic Light System

Project 2: Smart Street Light System

Project 3: Smart Car Parking System

Project 4: LCD Integration & Message Printing on LCD

Project 5: Testing smart energy project

Project 6: Smart Traffic Control System

Project 7: Solar powered Led Street Light with Auto Intensity Control

Project 8: Design of Simple solar Charger Circuit for Mobile.

Project 9: Sun Tracking Solar Panel


At end of session, 3:30pm all the students submitted their assignments.

A valedictory function under the chair, Dr. P. Ramesh, Professor & HOD-EEE was started at 3:35pm.

Dean-School of Engineering Dr. G. Janardhana Raju attended the function and he formally felicitated the resource persons.

On 27th February-2019 Workshop was concluded by vote of thanks by our beloved Dean School of Engineering, NNRG Dr. G. Janardhana Raju garu. A memento was presented to Resource person by our beloved Dean-SOE, Dr. G. Janardhana Raju garu.

It was a very resourceful session and the students gave a very good feedback. Everyone left the lab with positive attitude towards life at 4:00 pm.


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