



SREE VENKATESWARA COLLEGE OF ENGINEER

An ISO 9001:: 2015 Certified Institution
(Approved by AICTE, New Delhi and Affiliated to JNTU, Anantapur)
Northrajupalem (Vi), Kodavaluru(M), S.P.S.R Nellore (Dt)-524316

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

LIST OF GUEST LECTURES/TECHNICAL TALK

| ACADEMIC YEAR | DATE | YEAR | TOPIC | RESOURCE PERSON |
|---------------|------------|-----------------------|---|---|
| 2020-21 | 07-04-2021 | III YEAR (2018 BATCH) | Recent Trends in Electrical Engineering | V.Naga Bhaskar Reddy, Professor&HOD,RGMCET,Nandyal, |

A GUEST LECTURE ON

“RECENT TRENDS IN ELECTRICAL ENGINEERING”

Date: 10-04-2021

REPORT

The Electrical and Electronics Engineering department has organized a **Guest Lecture** on “Recent Trends in Electrical Engineering” on **07th April, 2021**. The resource person was **Dr. V. Naga Bhaskar Reddy**, Professor & HOD, Rajeev Gandhi Memorial College Of Engineering & Technology, Nandyal. Sree venkateswara college of engineering, principal madam Dr. S.V. Padmaja Rani inaugurated the guest lecture along with Mr. V. Anil Kumar, Head of the Department, Electrical & Electronics Engineering at Digi Hall of SVCN. The III year students of EEE department have attended this guest lecture.

Resource Person Profile:

Dr. V. Naga Bhaskar Reddy working as Professor & HOD, Rajeev Gandhi Memorial College of Engineering & Technology, Nandyal from November 2004. He has 18 years of academic experience. He completed his Doctor of Philosophy (Ph.D) in Power Electronic Converters & Electric Vehicles. He published total 25 research papers in international reputed publications in the areas of power electronics, renewable energy technologies, power quality and more.

About Recent Trends in Electrical Engineering

- **The Internet of Things (IoT)**

IoT impacts many different areas of the electrical engineering landscape. From smart grids to smart lighting and Visible Light Communication (VLC), among many others, IoT is now intertwined with the electrical engineering industry. As a result, it's now imperative that every electrical engineer becomes "IoT literate."

Apart from the smart grid benefits like monitoring, distribution and automation implemented in electrical utilities, IoT applications in the field of electrical energy also include smart inverters, advanced metering infrastructure (AMI), remote control operation of energy-consuming devices and SCADA (supervisory control and data acquisition.)

- **A boost in the implementation of sustainable energy**

With Greta Thunberg making her firm stand for intense action towards climatic change, it's certainly not the best time for the energy sector to rely on fossil fuels and other environmentally unfriendly energy sources.

The drive for sustainable energy sources is at its peak. The implementation of utility-scale renewable fuels such as solar, wind, and hydropower is, at its peak increase all around the world.

- **Energy storage and better batteries**

While wind and solar power are excellent sources of sustainable energy, they are not always there. Therefore, consumers can only "make hay when the sun shines." They have to do their best to save energy from the wind, the sun, or any other renewable sources for later use.

To meet this demand, electrical engineers all around the world are working towards better batteries and energy storage. Distributed Energy Resource (DER), grid parity, AI and sustainable energy, blockchain, and cybersecurity.

Generally, 2020 is an exciting year for the electrical engineering landscape. Companies like Tesla, Eos, Sonnen, and Vivint Solar are some to keep an eye on for the latest innovations.

The afternoon session continued with the

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