

A Report on Expert Talk on “Smart Grid and its Future”
Organised by Department of Electrical and Electronics Engineering
in Association with IETE – ISF - MITS
14.02.2025



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC-AUTONOMOUS INSTITUTION)
Madanapalle - 517325, Annamayya Dist., Andhra Pradesh, India

Expert Talk
on
“Smart Grid and its Future”
Organized by
Department of Electrical & Electronics Engineering
in association with MITS - IETE Student Forum (ISF)

Date : 14.02.2025 Time: 10AM to 12:00 PM Venue: Seminar Hall - B

Resource Person
Dr. K. Sathish Kumar
Professor,
School of Electrical Engineering (SELECT),
Department of Electrical & Electronics Engineering,
Vellore Institute of Technology, Vellore.

Chief Patron	Patron	Program Chair	Convener	IETE Coordinator	Event Coordinator	Event Co-coordinator
Dr. N. Vijaya Bhaskar Choudary Secretary & Correspondent	Mrs. Keerthi Nadella Executive Director	Dr. C. Yuvaraj Principal	Dr. A. V. Pavan kumar Professor & Head, EEE	Dr. R. Saravana Kumar Asst. professor, EEE	Mr. Sridhar. N Asst. professor, EEE	Dr. Neelu Kandamany Professor

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Report Submitted by: Mr. N. Sridhar, Assistant Professor, Department of EEE.

Resource Person Details: Prof. K. Sathishkumar, Professor, Department of EEE, VIT Vellore.

Venue: MITS – SB – Seminar Hall A

Participants: 55 (06 Faculty, 49 UG III Year EEE Students)

Mode of Conduct: Online

Time: 10:00 AM to 12:00 PM

Report Received on 17.02.2025.

Department of EEE in association with IETE – The Institution of Electronics and Telecommunications Engineers – ISF organized an expert talk on “Smart Grid and its Future” in South Block - Seminar Hall A - on February 14th, 2025, from 10:00 AM to 12:00 PM.

The program started with a welcome address by Dr. P. Ramanathan, Vice Principal, MITS - Madanapalle. Followed by Dr A V Pavan Kumar HoD/EEE also welcome the Chief Guest and given an over line among the Smart Grid and its Future.

Continuation to that the introduction about the resource person to the audience by Mr. N Sridhar, Assistant Professor, Department of EEE, Event coordinator MITS. He has given a short note on Dr. K. Sathishkumar, who holds the position of Professor, Department of EEE, School of Electrical Engineering (SELECT) VIT University Vellore. Dr. K. Sathishkumar is a distinguished professional and an inspiring speaker known for his expertise in personal and professional development. With extensive experience in mentoring and guiding individuals to unlock their potential, he brings a sound knowledge on power system domain. The session was handed over to Dr. K. Sathishkumar with event coordinator short speech about the resource person for the importance of learning of Smart Grid in Future.

Followed by the Dr. K. Sathishkumar Resource Person expressing his gratitude to the MITS Management, Principal, Vice Principal Administration and Vice Principal Academics, HOD/EEE, Event coordinator, IETE coordinator and participants for the opportunity to share his knowledge on the Smart Grid and its Future.



Expert Talk:

The session, titled “**Smart Grid and its Future**” is inspired by the globally renowned power system framework. Dr. K. Sathish Kumar focuses on the power systems with Generation, Transmission and Distribution of the power with the grid connectivity transmission system to smart grid method explanation to the students. Smart Grid technology is rapidly evolving, shaping the way we monitor power transmission system, enhance two ways of communication between the generation and transmission and interact with the digital world. As innovations continue, smart grid will become even more intelligent, compact, and seamlessly integrated into the transmission path. Further Dr. K. Sathish Kumar has delivered an impact talk across various power systems from the basic of generation system with all kind of necessary energy sources to transmission by smart grid technology in the future.

The resource person outlined and discussed the following key points during the session:

- This platform compared the grid connectivity with smart grid technology and the present system of transmission system.
- Expert Discussed the using smart grid technic what are the information we can additionally gather for the relevant power transferred related.
- It integrates seamlessly with IoT devices and streaming data, enabling innovations in smart grid technology for additional information.



- Workflow deployment is made easier with smart grid capabilities, ensuring smooth integration into enterprise with the complete systems.
- A vibrant community and extensive resources provide robust support, fostering innovation and collaboration in Smart Grid development.

Outcome

1. Learned how useful about the smart grid technology in power systems.
2. The basics of Transmission system from the all kinds of power plant Renewable and Non - Renewable sources.
3. Gained insights into connecting transmission system with grid and smart grid platform related.
4. Understood how to deploy workflows in real-world systems connectivity from smart grid systems technic issues.

Finally, a Vote of Thanks is given by Event Co-coordinator Dr. Nehru Kandaswamy Professor, and the program is concluded.