

Report on Expert Lecture

The **IEEE PES student chapter** of Sree Vidyanikethan Educational Trust is organized an expert lecture on “**Research Challenges in Power and Energy**” on 27.07.2019 @ 9.00 AM.



Dr. B. Hariram Selvamurugan Satheesh, Principal Scientist at ABB Global industries and Services Private Limited, Bengaluru, Karnataka, India. He is also having 12 years of experience in automation and flight control industries. He published published around 40 journal and conference articles of national and international repute.

The resource person started his speech about his organization of ABB at Bangalore. In his speech, he mentioned that ABB is the pioneering technology leader. The working groups of ABB are Power Grids, Industrial Automation, Robotics and Discrete automation.



Dr. B. Hariram Selvamurugan Satheesh ,Principal Scientist at ABB Global industries and Services Private Limited, Bengaluru, Karnataka, India delivering a lecture

He explained the key features of Indian Grid system and also the differences between the traditional and new grid system.

Some of the features of interest are: Bulk Power operations, retail/Distribution operations, Planning and Load forecasting, D-SCADA, Energy Management Systems (EMS) and Outage Management Systems (OMS).

He mentioned the Power Purchase Agreements (PPA) of Reliance Power and TATA Power in India.



Students, Faculty and Staff Practicing in Expert Lecture

He demonstrated many examples on Automatic Power Factor Correction (APFC) which was developed in Kolkata. He also explored the key concepts of communication technologies like the SCADA and networking with IoT.

The expert also thrown light on the latest issues with the new grid and latest development tools used in industry like Data Analytics and Machine Learning tools.

Finally, he concluded with he given real time examples of new grid with Cyber security technologies and embedded systems. Around 250 students of UG and PG from Electrical and Electronics Engineering benefitted with this expert talk.



Students are interacted with the resource person



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