

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC - AUTONOMOUS)

Report of Guest lecture on
Applications of Power Electronics in Renewable Power Generation
Organized by Department of Electrical & Electronics Engineering
On 29th June 2016



Department of Electrical & Electronics, Madanapalle Institute of Technology & Science organized a guest lecture on "**Applications of Power Electronics in Renewable Power Generation**" on 29th June 2016 in the Mechanical Seminar Hall, MITS. Dr. Pavana Kumar, Simlife Electric Private Limited, Bangalore, an Industry Expert in the area of Power Electronics was the resource person for the event. Dr. Pavana Kumar pursued PhD in Power electronics from IIT, Madras in 1980 and Started Multiple Centers of Excellence (COE) for GE, APC, Bloom, Schneider electric, SunEdison and Infineon which resulted in 100s of Millions of USD worth products Designed and Manufactured every year in India. He is a well-known industrialist and consultant with more than 35 years experience in the area of Processor based Designs of UPS, Drives, SMRs, Fuel Cells, energy meters, Solar Inverters, Design for six sigma and DMAIC of six sigma, and other power electronic equipment's using Simulation Tools like Saber, Matlab, Mathcad, Minitab, P-spice, etc. He has developed and introduced several new products Globally which includes 350VA – 40kVA UPS, DC and AC Drives, Energy meters / Ballasts / SMRs-12000A, String inverters-25kW -50kW, Solar inverters-100W-50kW, SOFC Fuel cells, Wind Converterw-1.5MW etc. He has several Patents and Publications in his credit in addition to the products that he has developed satisfying/complying to international standards.

The idea behind the guest lecture is to give an insight to the participants about the advancements in power electronics and its applications in Renewable Power Generation. Almost 100 students of our Institute which includes 4th year, 3rd year and 2nd year UG students of EEE department of MITS got benefited with the course.