

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC - AUTONOMOUS)

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Report of Guest Lecture on
Entrepreneurship in Power Electronics: Practical Applications and Future Industry
Needs

Organized by Entrepreneurship Development Cell

27.09.2018



Dr. Asha Rani introducing the session



Prof. PBN Prasad explaining the importance



MITS faculty members engaged in the session



Students focusing on the lecture by resource person

Report Submitted by: Dr. S. Manimaran, Coordinator ED Cell

Resource Person: Dr. Pavana Kumar, Simlife Electric Private Limited, Bangalore

MITS-ED Cell organized a guest lecture on “**Power Electronics in Entrepreneurship: Practical Applications and Future Industry Needs**” on 27th September 2018 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 of 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 Program started by 10.45 a.m. with the welcome address by Dr. Asha Rani M. A. – HOD EEE Dept. and Coordinator of the Program. Further, Dr. P B N Prasad, Associate Director R&D given a special address and Dr. K. R. Kashwan- Dean EEE & ECE given the concluding remarks for the session.

The idea behind the guest lecture is to give an insight to the participants about the advancements in power electronics and its practical requirement in power generation and integration with the grid. The lecture highlights the requirement of entrepreneurship in power electronics. The workshop sessions were very interesting, and we got a very good feedback from the participants and with a request to conduct advanced level of workshops/expert lectures like this in future also. Almost 120 students of 4th year and 3rd UG students and PG students of EEE participated and got benefited from the lecture and 22 of the faculty members of EEE got benefited with the course.

Entrepreneurship Development Cell extends sincere gratitude to the Management, Principal, and Head of the Departments for their support.



Dr. Pavana Kumar, the resource person explaining the importance of power electronics



కార్యక్రమంలో మాట్లాడుతున్న పవన్ కుమార్



అతిథి ఉపన్యాస కార్యక్రమంలో పాల్గొన్న విద్యార్థులు

దేశ పురోగతికి ఎలక్ట్రికల్ రంగం కీలకం

కురబలకోట, న్యూస్ టుడే: దేశ పురోగతికి ఎలక్ట్రికల్ రంగం కీలకమని బెంగళూరుకు చెందిన సిమిలైఫ్ ఎలక్ట్రిక్ సైవేటు లిమిటెడ్ కంపెనీ ప్రతినిధి డాక్టర్ పవన్ కుమార్ అన్నారు. మిట్స్ ఇంజనీరింగ్ కళాశాలలో శనివారం అతిథి ఉపన్యాసం జరిగింది. ఈ కుక్క విభాగం ఆధ్వర్యంలో 'ప్రాక్టికల్ అప్లికేషన్ ఆండ్ ఫ్యూచర్ ఇండస్ట్రీ నీడ్స్, ఇంపార్టెన్స్ ఆఫ్ పవర్ ఎలక్ట్రానిక్స్' అనే అంశంపై జరిగిన కార్యక్రమానికి పవన్ కుమార్ ముఖ్య అతిథిగా పాల్గొన్నారు. ఈ సంద

ర్భంగా ఆయన మాట్లాడుతూ.. దేశాభివృద్ధిలో పరిశ్రమలు ముఖ్యపాత్ర పోషిస్తాయన్నారు. విద్యుత్తు రంగం మరింత కీలక భూమిక పోషిస్తోందని పేర్కొన్నారు. విద్యుత్తు సరఫరాలో అంతరాయం, వృధాను అరికట్టేందుకు ఇంజనీరింగ్ నిపుణులు కృషి చేయాలని పిలుపునిచ్చారు. కార్యక్రమంలో ప్రిన్సిపల్ డాక్టర్ యువరాజ్, డీన్ కేశవన్, విభాగాధిపతిని డాక్టర్ ఆశారాణి, డాక్టర్ ఇలంపూర్ణం, డాక్టర్ ప్రసాద్ తదితరులు పాల్గొన్నారు.

Title: NATIONAL IMPORTANCE ON THE POWER ELECTRONICS

Content:

An awareness seminar on the need for practical applications of power electronics was organised in MITS and Dr. Pavana Kumar of Simlife Electric private limited, Bangalore was the resource person.

He gave the upcoming need of the hour and importance of the hands-on practical training required for the engineering graduates on Power Electronic devices. The students and staff members of MITS experienced a great amount of information shared and pledged to act on the same.

The session was head by the principal of the Institution Prof. C. Yuvaraj, EEE-HoD Dr. Asha Rani, Dean-EEE-ECE Prof. Kashwan, Prof.PBN Prasad.


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