



BVRIT HYDERABAD College of Engineering for Women
(Approved by AICTE | Affiliated to JNTUH)
(NAAC Accredited – A Grade | NBA Accredited B. Tech. (EEE, ECE, CSE and IT))
Bachupally, Hyderabad -500 090

Name of the Event: Power Electronics - Introduction to Variable Speed Technology

Date(s) of Conduction (DD-MM-YYYY): 18-10-2023

No. of Participants: 70

Resource Person(s) with designation (if applicable): Mr. Mahesh Thodupunuri (Sr. Solution Architect & Global Program Manager at EMERSON)

Faculty Co- coordinators: Ms.B.Sujatha, Associate Professor, EEE

About the Event:

Introduction to Power Electronics: Mr. Mahesh started the lecture by explaining the basic concepts of power electronics, its significance in today's world, and the transformation it has brought in energy conversion and control.

Components and Converters: He delved deep into the various components used in power electronics like diodes, transistors, and thyristors. He also covered different converters such as AC-DC, DC-AC, DC-DC, and AC-AC.

Applications: Mr Mahesh highlighted the wide range of applications of power electronics, from household appliances to industrial drives, renewable energy systems, and electric vehicles.

Emerging Trends: The discussion moved towards the latest research and advancements in the field, including wide bandgap semiconductors, wireless power transfer, and advancements in inverter technologies.

Interactive Session: The lecture concluded with an interactive Q&A session where students asked various questions ranging from the basics to the latest technologies in power electronics.

Conclusion:The guest lecture by Mr Mahesh was a grand success. It not only enlightened the students about the basics of power electronics but also introduced them to the latest trends and research areas in the field.The Department of EEE is grateful to Mr Mahesh for his invaluable contribution and looks forward toorganizing more such enlightening sessions in the future.

Photos:



B. Sujatha

Signature of Faculty Co-ordinator

A handwritten signature in blue ink, consisting of a stylized, cursive 'M' followed by a loop.

Sign of HoD