

N.M. Institute of Technology

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30.06.2021

Post box no. 7087, 27th cross, 12th Main, Banashankari 2nd Stage, Bengaluru- 560070, INDIA
Ph: 91-80- 26711780/81/82 Email: principal@bnmit.in, www.bnmit.org

Department of Electrical & Electronics Engineering

ISTE STUDENT'S CHAPTER - TECHNICAL TALK-'DC-DC Converters' and 'Basics of UPS'



**Ms.Niveditha Mani receiving a token of appreciation from Dr. V. Muralidhara,
Professor (L)**



Ms.Akshatha Kulagod delivering technical talk (R)

A Technical Talk on ‘**DC-DC converters**’ and the ‘**Basic of UPS**’ was delivered by **Ms. Akshatha Kulagod**, Embedded Software Designer, Dubas Engineering Pvt Ltd and **Ms. Niveditha Mani**, Embedded Software Designer, Dubas Engineering Pvt Ltd which was organized on 15th October 2019 under **ISTE Students Chapter**.

Ms. Akshatha Kulagod gave a lecture on operation of DC-DC converters. Different types of DC-DC converters, their topologies and use in the industrial applications were discussed. Practical Design of DC-DC converter was also explained. The talk was very useful as the speaker explained the concept from industrial perspective.

Ms. Niveditha Mani delivered talk on ‘basics of UPS’, which dealt with the fundamental operation of working of different types of UPS. The students were able to appreciate the key role an Uninterruptible Power Supplies (UPS) plays in providing power quality against various line problems such as outage, sag, surge, under-voltage, over-voltage, spike, frequency variation, noise, and harmonic distortion.

The speakers spoke about the company which was helpful for the students to understand the opportunity to carry out the internship in the company. The talk was very useful for the students in understanding the importance of electrical engineering in different fields of industrial applications.

FCD FELICITATION FUNCTION & ISTE STUDENTS CHAPTER **TECHNICAL TALK**

“Basics of Electrical Engineering Design”





A technical talk on '**Basics of Electrical Engineering Design**' was delivered by Mrs. Manjula Y S, Senior Design Manager-Electrical, AIRTRON Consulting Engineers Pvt Ltd, Bengaluru on 2nd November 2019 organized by **ISTE Students Chapter**. The technical talk delivered was on the installation of wiring system and lighting accessories, protective devices used in Residential and commercial buildings for proper functioning of electrical system. The speaker started her talk by providing information on overall function of power distribution system used in a building. She gave an insight into the design of electrical system for a residential/commercial building, consisting of a substation, HT panel, LT panel, transformer, different ratings of circuit breakers, different ratings of wires and fire detection with alarm system. The preliminary calculation of the expected electric power demand on intermediate substations, and on the main electric power supply, from the connected load layout by applying appropriate factors was also discussed in brief by the speaker.

The talk was beneficial to the students in understanding the concepts of designing an electrical system in terms of connected loads. The students gained knowledge on

developing an electrical plan for buildings. The Students who secured First class with distinction were felicitated with memento by the chief guest.