



AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

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Name of the Event	Technical Talk
Organised by	Department of Electronics and Communication
Date	07-05-2019
Time	2:30 to 5:00 PM
Name and Details of the Resource Person	Dr Prashanta Kumar H Assistant Professor, NITK Surathkal

INVITED TALK ON THE TOPIC

“BASICS AND RECENT TRENDS IN ELECTRONIC COMMUNICATION”

By Dr. Prashanth Kumar H. , Asst. Prof., Dept. of E & C Engg., NITK, Surathkal

ELECTROVERTZ, association of Students E & C Engg., AJIET had recently arranged an invited talk for its members, by guest speaker Dr. Prashanth Kumar H. from NITK, Surathkal on the topic as mentioned in above title, On 07/05/2019 in AJIET Campus. Dr. Prashanth K. H. has vast experience in teaching the UG and PG subjects related to communication at NITK, Surathkal and also at MIT, Manipal. He started the session by giving an insight view of Electronics and Communication, in general.

The two methods of communication ie. Analog and digital was the focus of the session. Aspects of modulation and demodulation in analog communication was highlighted to the students. He demonstrated the use of Software Defined Radio (SDR) kit developed by Motorola. It is a radio communication system where components that have been traditionally implemented in hardware (eg mixers, filters, amplifiers, modulators/demodulators, detectors) are implemented by means of software on an embedded system. It is used to perform communication experiments. All the base band signal processing can be done by software with the help of SDR. He gave an overview of MATLAB SIMULINK to perform signal processing experiments for communication. Beginning with the basics of signal processing in communication, he explained the frequency and time domain analysis of signal in MATLAB SIMULINK 2013B and also demonstrated it with different examples for better understanding. He emphasized on different modulation techniques such as DSBSC and also demonstrated the frequency error due to coherent demodulation technique in MATLAB. He concluded the talk by suggesting the best source materials for better understanding of the concepts of communication. As a token of appreciation and gratitude a memento was presented to Dr Prashantha Kumar H by the HOD Prof Prakash K Shetty. It was informative session for the faculties and students of the department.

Class	Students attended
4 th Semester-EC	30
6 th Semester-EC	23

Photos of Technical talk

