

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC - AUTONOMOUS)

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Report on One day Guest lecture on
COMSOC
16 November 2017



Submitted by: Dr. Kumar Manoj, Associate Professor, Department of Electronics and Communication Engineering

The lecture started at 3.00 PM in MBA Seminar hall by Dr. Kumar Manoj, Associate Professor, Department of ECE addressing the participants about the importance of the event. The main agenda of this session was to get a complete idea on Digital Signal Processing. This session was carried out by Dr. P. Naraya Moorthy currently working as professor at CSI Engg college in electronics and communications department. He has published many international journals and also guiding M.Tech projects. Professor not only gave guest lecture on Digital Signal Processing but also gave tips on MATLAB which is a Basic Simulation, How to read electronics subjects and tips for that is also given which were very useful to an electronics and communication studying engineer. Students took active participation by listening and also noting down the important points given by the Professor. He not only gave lecture on the subject but what kind of projects can also be developed using MATLAB and various subjects.

Digital signal processing (DSP) is the use of digital processing, such as by computers or more specialized digital signal processors, to perform a wide variety of signal processing operations. The signals processed in this manner are a sequence of numbers that represent samples of a continuous variable in a domain such as time, space, or frequency. Digital signal processing and analog signal processing are subfields of signal processing. DSP applications include audio and speech processing, sonar, radar and other sensor array processing, spectral density estimation, statistical signal processing, digital image processing, signal processing for telecommunications, control systems, biomedical engineering, seismology, among others. DSP can involve linear or nonlinear operations. Nonlinear signal processing is closely related to nonlinear system identification [1] and can be implemented in the time, frequency, and spatio-temporal domains. The application of digital computation to signal processing allows for many advantages over analog processing in many applications, such as error detection and correction in transmission as well as data compression. DSP is applicable to both streaming data and static (stored) data.

The students from 3rd year participated the event and got benefitted by obtaining basic knowledge in digital signals.
