

ABOUT THE INSTITUTE

Maulana Azad National Institutes of Technology (MANIT) is an institute of National importance. It was formerly known as Maulana Azad Collage of Technology (MACT), which was India's one of the first eight Regional Engineering collages. The institute has been named after the great scholar, educationist and the first education Minister of India, Maulana Abdul Kalam Azad. The Govt. of India and the Govt. of Madhya Pradesh jointly sponsored the institute in 1960 to attract bright young students from across the country. The institute successfully meeting the objective of producing skilled manpower with the highest quality to cope up with challenges of ever evolving industrial needs of the country.

Objective

The objective of this program is to give exposure, awareness and competence about recent trends in Modeling and Simulation for Signal Processing using Python and MATLAB.

Eligibility

Faculty from Academic Institutions, Research organizations, Research scholar and Student with background in Signal Processing.

Registration Fee-

Rs. 1000/- per Faculty / Researcher. Fee can be deposited in MANIT account electronically / by cheque / by DD in favour of Director MANIT.

Account Number - 10020150107

IFS Code - SBIN0001608

Chief Patron

Dr. N. S. Raghuwanshi, Director, MANIT
Bhopal

Patron

Dr. Kavita Khare, Head of Department, ECE

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Assistant Professor

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Self financed Short Term Training Program [online mode]

on

Trends in Signal Processing and Machine Learning using Python & MATLAB

July 5-9, 2021

Organized by



**Department of Electronics and
Communication Engineering**

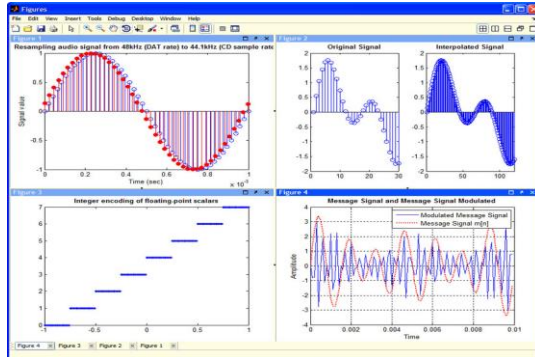
Maulana Azad National Institute of
Technology,
Bhopal-462051
Madhya Pradesh, India

Website : www.manit.ac.in

Introduction

System modeling and simulation are important in research which represents the real systems either via physical reproductions at smaller scale, or via mathematical models. The dynamics of the modeled system can be represented by simulation that allows exploring system behavior in an articulated way which is often either not possible, or too risky in the real world. Interest in simulation application is increasing day by day because simulations is generally economical and safer than conducting experiments with a prototype of the final product. It also allows setting up a coherent synthetic environment that allows for integration of simulated systems in the early analysis phase via mixed virtual systems with first prototypical components to a virtual test environment for the final system.

Signal processing deals with analysis of analog as well as digital signals representing time-varying or spatially varying physical quantities. Signals of interest can include audio, image, video, sensor readings, control system signals, electromagnetic radiations, telecommunication signals etc.



Course Content

- Signal Processing:
 - Signal representation
 - Convolution, FFT, DFT, IFFT
 - Sampling Theorem
 - Audio Processing
 - Image processing
 - Video Processing
 - Wavelet Transform and applications
 - IRIS Biometric
 - Face Biometric
 - Fingerprint Biometric

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How to Apply:

Email the completed registration form to
opm@manit.ac.in

Maulana Azad National Institutes of Technology,
Bhopal-462051

Registration Form

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**Trends in Signal Processing and
Machine Learning using Python &
MATLAB**

July 5-9, 2021

Name :

Designation :

Organization / Institute:

Address :

Contact No. :

Email :

Highest Qualification:

Area of interest :

Fee payment Transaction date and No. :
.....

Date

Signature of Applicant