

**Registration Form**

**Five Days Virtual FDP**

on

**APPLICATIONS OF SOFT COMPUTING  
TECHNIQUES FOR ELECTRO-MECHANICAL  
SYSTEMS (ASTEMS)**

**(26<sup>th</sup> April – 30<sup>th</sup> April 2021)**

Name:-----

Designation:-----

Affiliation:-----

Qualification:-----

Mailing Address:-----  
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Contact No.-----

E-mail:-----

Accommodation Required:  Yes  No

Details of Payment:

Bank Name----- TR No.-----

Amount:----- Date -----

**Signature of Applicant**

**Date:**

**Signature of Sponsoring  
Authority with Seal**

**CHIEF PATRON**

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

**PATRONS**

**Dr. Tripta Thakur**  
Head  
Department of Electrical Engineering

**Dr. Gajendra Dixit**  
Head  
Department of Mechanical Engineering

**COURSE COORDINATORS**

**Dr. Giribabu Dyanamina**  
Assistant Professor, Department of Electrical  
Engineering

**Dr. More Raju**  
Assistant Professor, Department of Electrical  
Engineering

**Dr. Ravi Kumar Mandava**  
Assistant Professor, Department of  
Mechanical Engineering

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**Self**

*Sponsored*

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TECHNIQUES FOR ELECTRO-MECHANICAL  
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**(26<sup>th</sup> April – 30<sup>th</sup> April 2021)**



**Organized By**

**Department of Electrical Engineering**

**&**

**Department of Mechanical Engineering**

Maulana Azad National Institute of  
Technology  
Bhopal- 462003

## Objective

The main aim of this FDP is to apply Soft Computing Techniques in various electrical and mechanical applications and to provide the platform for the upcoming researchers in areas of

- **Electric Drive systems**
- **Renewable energy sources**
- **Electric Vehicles**
- **Robotics**

The importance of soft computing techniques has grown over the years due to several factors. This is an interdisciplinary in nature and is used in a wide variety of areas such as Electric Drives, Electric Vehicles, Renewable Energy systems and Robotics etc... This FDP is designed to address applications of soft computing techniques in the industries and to encourage various zonal professionals/research scholars/academicians towards research and for their Academic Quality Improvement too. This course offers a unique opportunity to the all colonize in the relevant topics mentioned to come closer through theoretical sessions and laboratory-based demonstrations.

## Course Highlights

- Introduction to Soft Computing Techniques.
- Genetic algorithm in Robotics Applications
- Particle swarm optimization.
- Fire Fly Algorithm.
- Invasive weed optimization algorithm in Robotics.
- Artificial neural network and its variants.
- Fuzzy logic Controller
- Adaptive Neuro Fuzzy Inference System.

## Who May Be Benefitted

Technical faculty, Industry professionals, Research Scholars, Post graduate and Under graduate students from academic institutes would be benefitted from this course. The Faculty members and research scholars working in the broad areas of Electrical and Electronics Engineering and Mechanical Engineering may register to attend this FDP by sending their Application duly recommended by respective Head of Department or Head of Institution.

## Resource Persons

Programme faculty include Experts from IIT's, NIT's and Industries.

## Registration Fee

The registration fee structure is as follows

| Participants                   | Fee    |
|--------------------------------|--------|
| U.G, P.G and Research Scholars | 400/-  |
| Faculty                        | 500/-  |
| Industry Professionals         | 1000/- |

- ❖ Registration link will available on Institute website [www.manit.ac.in](http://www.manit.ac.in).
- ❖ FDP is conducted in virtual mode (Google Meet).
- ❖ Seats are limited to 100 and selection will be based on first come first basis.
- ❖ Online payment must be transferred to “Director, MANIT”, payable at S.B.I, MANIT branch (code: SBIN0001608 and Account No. 10020150107) on or before 05-04-2021.
- ❖ Participants must fill online payment details in Google form link is shared below

## Google form Link:

<https://forms.gle/D5UwV9mw9gMbRVnWA>

## About The Institute

MANIT (formerly MACT), is one of the eight premier Regional Engineering Colleges of the country founded by government of India in 1960s, and subsequently upgraded to National Institute of Technology (NIT) in 2002. It is one of the premier Institutes of technical education in Central India, successfully imparting quality education to graduate and postgraduate students in engineering since its inception. The Institute has well equipped labs and other infrastructural facilities. Bhopal is the capital of Madhya Pradesh and it is also known as city of lakes. It is well connected from different parts of the country by rail route and air. The institute is 9 kms away from Bhopal main railway station and 6 kms from Habibganj railway station. Bhopal airport is 18 kms away from the Institute.

Department of Electrical Engineering is one of the oldest departments of MANIT and offers one B. Tech. course, two M. Tech. courses (Electric Drives and Power System) and Ph. D. program. It has well qualified and experienced faculty. The young and motivated faculty with comprehensive research background coupled with the state of art machine lab and other new laboratories are the strengths of the department.

Department of Mechanical Engineering came into existence in the year 1960. The department has thirty four qualified and dedicated faculty members with specializations in various areas of mechanical engineering. At present, the department is conducting an undergraduate course, five post graduate courses and research programmes leading to Ph.Ds.