



## About Maharashtra Academy of Engineering & Educational Research (MAEER's)

MAEER's Maharashtra Institute of Technology (MIT), established in 1983, is today amongst the top education institutes in India. The strong ethical foundation upon which MIT Group has embarked, makes it special. Since inception, MIT Group has grown leaps and bounds and has made a strong impact in the realm of education throughout the country. MIT Group provides Education in the fields of Engineering, Medicine, Pharmacy, Marine Engineering, Insurance, Telecom Management, Lighting, Design, Food & Technology, Business Administration, School of Government, Distance Education and School Education.

## About MIT World Peace University (MIT-WPU)

The focus of MIT World Peace University is to be the change that is needed in the world today by sensitizing and understanding the human dimensions of conflict and developing a toolbox of transferable skills such as negotiations, peace building, technology and management. These skills will enable graduates to succeed in peace building. This university is an aspirational university for students searching for a world class education.

## About MIT College of Engineering (MITCOE)

MITCOE has come to be known as the destination of choice for most aspiring engineers, not only from Maharashtra, but also from the rest of India. MITCOE has evolved into a technology savvy mentor of engineers. We encourage students to be team players, rather than mute receivers in the knowledge building process.

## About Electronics & ICT Academy, PDPM IIITDM Jabalpur

Ministry of Electronics and Information Technology, Government of India has instituted seven Electronics and ICT Academies with one academy at IIITDM Jabalpur in partnership with IIITM Gwalior, MANIT Bhopal, and IIT Indore. The Academy aims at running training programmes for faculty, students and unemployed graduates in fundamental areas as well as on the cutting edge technologies. In addition, the Academy conducts specialized / customized training programmes and research promotion workshops for corporate sector and educational institutions. The Electronics and ICT Academy is envisioned to become a central hub of activities on training, consultancy work and entrepreneurship programmes.

### Who can attend?

Programme is open to faculty from all colleges and universities all over India. Industry personnel working in the concerned/allied discipline may also apply. Limited seats are available for research scholars.

### How to apply:

Online: The participants may log on to the <http://mitcoe.ac.in/SCAI/index.html> and fill up the application form. Send scanned copy of your completed application form to [mitcoesoftware@gmail.com](mailto:mitcoesoftware@gmail.com). Application format may be downloaded from the website (Also given in this brochure). Print out of the filled in application form duly endorsed by the forwarding authority and a demand draft of applicable amount (as given below) in favor of 'MIT College of Engineering payable at Pune' should reach to the address given below. No TA/DA will be paid by the organizers.

### Registration Fees:

Rs. 1100/- for UG Students  
 Rs. 1250/- for Research Scholars & Academicians  
 Rs. 4000/- for Industry Professionals

## CONTACT US

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# SOFT COMPUTING

National Level  
 Faculty Development Programme

on  
**Soft Computing**  
**Approaches & Implementation**  
**(Neural Networks, Deep Learning**  
**and Genetic Algorithms)**

December 17-21, 2018

Organized By  
 Department of Information Technology  
 MIT College of Engineering, Pune  
 MIT World Peace University, Pune

In association with  
 Electronics & ICT Academy, PDPM IIITDM Jabalpur  
 (An Initiative of Ministry of Electronics  
 and Information Technology, Govt. of India)

## OUR STRENGTH

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**Prof. Rahul V. Karad**

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Principal, MIT College of Engineering, Pune, India

## COURSE COORDINATORS

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**Dr. Anjali A Chandavale**

MITCOE, Pune

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## ABOUT FDP

Soft computing is the use of inexact solutions to computationally hard tasks such as the solution of NP-complete problems, for which there is no known algorithm that can compute an exact solution in polynomial time. The principal constituents of Soft Computing (SC) are Fuzzy Logic (FL), Evolutionary Computation (EC), Machine Learning (ML) and Probabilistic Reasoning (PR).

### Course objectives:

To provide platform to curriculum developers, research scholars and faculties to gain hands on emerging multidisciplinary techniques using Open Source Software (OSS) and interact with experts to solve optimization problems and increase technological social awareness.

The course outcome is envisioned as enhancement of knowledge-base on optimization techniques and confidence-building among faculty members in using soft computing approaches for optimization problems in different application domains. After successfully completing the course, the participants will be able to apply these techniques and suitably train the algorithms for optimized performance.

## RESOURCE PERSON

- Dr. Niketa Gandhi, MIR Labs, USA
- Prof. Aparajita Ojha, IIITDM, Jabalpur
- Dr. Ashok Deshpande, COEP, Pune
- Dr. Ramachandra V. Pujeri, MITWPU, Pune
- Dr. Sanjiv Tambe, NCL Pune
- Mr. Raviraj Kanade, Ahmedabad
- Dr. Anjali A. Chandavale, MITCOE, Pune

## COURSE CONTENT

The course aims to provide comprehensive exposure to Soft Computing Techniques in Optimization. The topics include:

- Fundamentals of Neural Network
- Fuzzy Logic and Applications
- Advance in Deep Learning and applications
- Evolutionary Algorithm and their Applications
- Swarm Intelligent System and Applications
- Case Studies and Emerging Optimization Techniques
- Programming for different applications in Python / MATLAB

MAEER's  
MIT COLLEGE OF ENGINEERING, PUNE  
Department of Information Technology  
National Level

Faculty Development Programme

## “Soft Computing Approaches & Implementation” (Neural Networks, Deep Learning and Genetic Algorithms)

17<sup>th</sup> - 21<sup>st</sup> December, 2018

### Application Form

Name of the Course / Programme:

**Soft Computing Approaches and Implementation**

Name of the Applicant: .....

Gender: M  F  T

Category: Student  Academician  Professional

Gen  OBC  SC  ST

Designation: .....

Name and Address of the Organization/Institute/College: .....

City/town:..... Email: .....

Alternate email (if any): .....

Phone Number: .....

Mobile Number: .....

Do you need accommodation? (Yes/No):

Details of Payment:

DD/Online transfer (In case of DD, payment should be in favor of “MIT College of Engineering”)

DD Number/Online Reference No: .....

**Issuing Bank: Bank of India Payable at: Pune**

### Signature of Applicant

I hereby agree to relieve

Mr./ Ms./ Dr.....

in case she/he is selected to attend the programme.

### Signature and Seal of the Forwarding Authority

Name .....

Designation: .....