



INDIAN INSTITUTE OF TECHNOLOGY INDORE

Department of Computer Science and Engineering

& Department of Mathematics

Organizes

**3-Days Short term Course on
Recent Trends in Machine Learning and Soft-Computing**

December 18-20th, 2020

Sponsored by Technical Education Quality Improvement Programme (TEQIP)-3, MHRD



Course Content

Machine Learning (ML) is a systematic study of algorithms and systems that improve their knowledge or performance with experience. Soft-Computing (SC) is a sub-paradigm of Machine Learning which includes the methodologies that embrace approximate reasoning, imprecision, uncertainty and partial truth in order to mimic the remarkable human capability of making decisions in real-life, ambiguous environments. Soft Computing has therefore become popular in developing systems that encapsulate human expertise. This course would cover the basics of ML and SC as well as their recent advances in real-life applications including those in optimisation, data analysis, data mining, prediction, and diagnosis. Besides learning the basics and applications of ML and SC, the participants of this course would also get a flavour of recent challenges in these interdisciplinary areas.

The lectures will cover the following topics:

- Classification, Regression, Clustering with Case studies
- Basics of Machine Learning & Soft-Computing
- Data Analysis with Illustrative case study
- Handling optimization issues, Online data
- Python programming for Data pre-processing, ML & SC

Course Coordinators

Dr. Aruna Tiwari (Associate Professor, IITI)

Dr. Kapil Ahuja (Associate Professor, IITI)

Dr. M. Tanveer (Associate Professor, IITI)

Who should attend?

- Professionals working in R & D organizations and industries.
- Faculty from Engineering/Polytechnic colleges.
- Research scholars, post graduate students

TARGET PARTICIPANTS

This course is tailor made for the students, researchers, and faculty members from any academic background.

CERTIFICATE

Participants who successfully complete the course will be awarded with a certificate.

Course Fee

No registration fee for faculty members from TEQIP institutes

- ₹ 5,000* (for industry personnel)
- ₹ 3,000* (for faculty members)
- ₹ 2,000* (for students)

*including service tax

Mode of Payment:

For Online Payment

<http://www.iiti.ac.in/page/e-payments>

Name of the Beneficiary: Registrar, IIT Indore

Name of Bank: Canara Bank **Branch:** IIT

Indore, Simrol Campus **Account No.:**

1476101027440

Bank IFS Code: CNRB0006223

Number of Seats: Limited

Online Registration Link:

<https://forms.gle/BMTJRuGPN4Jv5nSy5>

Registration Deadline: 16/Dec/2020.

Address for correspondence:

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1.	Name of the Person:	
2.	Designation:	
3.	Name of the Institution/Organization:	
4.	Address for Communication:	
5.	Are you a faculty member from TEQIP Institute? (Yes or No)	
6.	Phone:	
7.	Email:	
8.	Payment Details: (for participants from non TEQIP institutes)	
9	Amount Transferred :	
10	Payment Reference Id	
11	Transaction Data:	
12	Bank Details	
13	Any other relevant Information	
Place:		Date:
Signature of Participant:		
Important Dates:		
<p>The soft copy of completely filled registration form (along with online payment slip for the course fee) should be sent to the following e-mail ID on or before December 16, 2020.</p>		
Authorized Signature		Institute/Organization seal