*Legacy that Inspires the Future*

भारतीय प्रौद्योगिकी संस्थान
भारतीय खनि विद्यापीठ
धनबाद

INDIAN INSTITUTE
OF TECHNOLOGY
INDIAN SCHOOL OF MINES
DHANBAD

IIT (ISM)
DHANBAD
1926-2026

# Short Term Course on Machine Learning with Excel
# Department of Mathematics & Computing,
# IIT (ISM) Dhanbad

The Department of Mathematics & Computing, IIT (ISM) Dhanbad is organizing a six-day short-term online course on Machine Learning with Excel in online mode. This course aims to introduce participants to the fundamental concepts and applications of Machine Learning (ML), a core area of Artificial Intelligence that enables systems to learn from data for tasks such as prediction, classification, and dimensionality reduction. Unlike conventional approaches that require programming knowledge in Python or R, this course adopts a user-friendly, no-code methodology using Microsoft Excel, making it accessible to participants from varied academic and professional backgrounds. The program includes a balanced mix of theoretical sessions and practical hands-on exercises, guiding participants through the process of developing, training, validating, and applying ML models. The hands on will help the participant to gain some experience on how to develop, train and validate a ML model as well as how to use this model for practical application. No prior programming experience is required, making this an ideal opportunity for anyone interested in learning ML in an intuitive and practical manner.

## Course Outline:

1. Basics of Linear algebra and probability
2. Data preprocessing and data visualization
3. Regression techniques (linear, multiple and logistic regression)
4. Linear classification using SVM
5. Principal Component Analysis
6. Clustering

This course includes hands-on sessions for practical learning. Participants only need a laptop or desktop with Microsoft Office installed.

A certificate will be awarded upon completion, and soft copies of course materials will be provided for future reference.

**This program will be done in online mode after office hours, i.e., in the evening.**

## Coordinator:
Prof. Subhashis Chatterjee, Dept. of M&C, IIT (ISM) Dhanbad

## Co-Cordinator:
Prof. Abhishek Kumar Singh, Dept. of M&C, IIT (ISM) Dhanbad

### Speakers & Hands-on Instructors
- Prof. Subhashis Chatterjee, Professor Department of Mathematics & Computing
- Prof. Abhishek Kr. Singh, Professor, Department of Mathematics & Computing
- Prof. Saurabh Srivastava, Assistant Professor, Department of CSE, IIT(ISM) Dhanbad

## Eligibility Criteria
Anyone pursuing or having completed a Diploma/bachelor's degree or above in any discipline.

## Registration Fees (in INR including 18% GST):

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|---|---|
| Students (Diploma/UG/PG) | 1000 |
| Research Scholars | 1500 |
| Faculty Members/ Teachers | 1500 |

## Register Now
Pay the registration fee and fill up the form **Click here**

## Account Details
Name of Bank- Canara Bank
Account Name- IIT(ISM) SPECIAL Fund
Number- 0986101024892
IFSC Code- CNRB0000986
**Last date to apply:** 17/08/2025
**Date:** 19/08/2025-24/08/2025
**Time:** 6:00 PM to 8:30 PM