Winter School on
Scientific Computing and Machine Learning

(22nd December 2025 – 26th December 2025)

SCML

About Winter School

The Winter School on Scientific Computing and Machine Learning: Principles and Applications aims to equip participants with a deep understanding of computational techniques and data-driven methods for solving complex scientific and engineering problems. Over five days, the program will:

Introduce Core Concepts – Provide foundational knowledge in scientific computing, numerical methods, and machine learning algorithms, emphasizing their relevance in modeling and simulation.

Explore Integration Strategies – Discuss the synergy between machine learning and traditional scientific computing approaches, including physics-informed neural networks (PINNs), surrogate modeling, and data assimilation.

Hands-on Experience – Facilitate interactive sessions, coding labs, and real-world applications to help participants implement computational algorithms and ML models using Python and scientific libraries.

This Winter School is designed for graduate students, researchers, and professionals aiming to enhance their computational skills and apply machine learning to real-world scientific challenges.

Speakers

Prof. Ameya D. Jagtap, Worcester Polytechnic Institute, USA
Prof. Youngjoon Hong, S. Korea
Prof. Swagatam Das, ISI Kolkata
Dr. Souvik Chakraborty, IIT Delhi
Prof. Nischal Verma, IIT Kanpur
Prof. Jitendra Kumar, IIT Ropar
Prof. Sanjeev Kumar, IIT Roorkee
Dr. Prasanta Kumar Ghosh, IISc Bangalore
Dr. Sangeeta Yadav, University of Delhi
Mr. Kshitij Parwani, Applied Scientist, Amazon Pune
Dr. Anupam Yadav, NIT Jalandhar
Dr. Neha Yadav, NIT Jalandhar

Registration Fee

Category	Online	Offline
Students	Rs 1500/-	Rs. 2500/-
Faculty	Rs. 2500/-	Rs. 3500
Industry Person	Rs. 4000/-	Rs. 5000/-
International	USD 100/-	USD 150/-

Note : 18% GST Exempted on Registration Fee for the **Student/Faculty/Staff** of NITJ.

Register Here: