



For Immediate Release: February 8, 2025

PRESS-RELEASE

Three-Day Workshop on Seismic Modeling and Migration Kicks off at IIT (ISM) Dhanbad

Over 140 students gathered at Lab 3 of the New Lecture Hall Complex at IIT (ISM) Dhanbad today for the inaugural session of a three-day workshop on seismic modeling and migration using SeisRTM. The workshop is organized by the Department of Applied Geophysics at IIT (ISM) Dhanbad, in association with the Department of Earth Sciences at IIT Roorkee and Seismic Data Processing, C-DAC Pune.

The first day of the workshop introduced participants to foundational topics including basic LINUX and SLURM commands, 2D Model Geometry Creation, and seismic data generation using 2D Isotropic modeling. Experts from the field shared their insights, including a key presentation by Ms. Richa Rastogi, Scientist F, C-DAC Pune, who spoke on Seismic Modeling. Ms. Nitu Managath, Senior Project Engineer at C-DAC Pune, also led a session on an Introduction to SeisRTM software.

As part of the event, the Chief Guest, Prof. Dheeraj Kumar, Deputy Director of IIT (ISM), emphasized the broader applications of SeisRTM software. He highlighted that while the workshop primarily focuses on its application in seismology, it has significant relevance in mineral exploration, including mineral processing, resource reserve estimation, and recovery of mineral deposits. "The world is increasingly relying on geophysicists to explore non-destructive technologies in mineral exploration and add value to existing reserves," said Prof. Kumar.

The workshop will continue on February 9 with a presentation on the Theoretical Aspects of RTM by Prof. Anand Joshi, Head of the Department of Earth Sciences at IIT Roorkee. Participants will also engage in hands-on sessions, focusing on seismic migration using data generated on Day 1, as well as seismic migration using SEG-Y data and third-party seismic data (DIY).

Prof. Sanjit Kumar Pal, Head of the Department of Applied Geophysics at IIT (ISM), welcomed the attendees and emphasized the importance of SeisRTM as an advanced, highly customized reverse-time migration software designed for efficient seismic imaging.

The workshop will conclude on February 10, featuring more discussions on the theoretical aspects of modeling and RTM, SeisRTM demonstrations using the NSM Cluster, and further hands-on sessions and application-focused discussions.

Rajni Singh
Dean (Corporate Communications)