



IMPORTANT DATES

Last Date of Registration	10 th June 2025
Confirmation to	20th June 2025
Participants by E-mail	
Commencement of Course	3 rd July 2025

REGISTRATION FEES

For all P.G./Ph.D. Scholars, Faculty Members, and Industry Professionals

Online participation fee	Rs. 2000
Offline participation fee	Rs. 8000

The registration fee includes GST

CONTACT INFORMATION

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REGISTRATION PROCESS

For registration, the participants need to fill the Google form with necessary details. After successful payment of registration fees, the participants need to provide the transaction details in Google form by scanning the QR code

https://forms.gle/YAmmntM8ojFpNf67A



Bank Account Details for Registration

Account Name	CONTINUING EDUCATION NIT ROURKELA
Account No.	10138951784
Branch	NIT Campus Rourkela
IFS Code	SBIN0002109

National Institute of Technology Rourkela



Workshop on Modeling River Hydraulics: A Hands-on Approach Using FLOW-3D and HEC-RAS

 03^{rd} July – 07^{th} July, 2025

Patron Prof. K. Umamaheshwar Rao

> **Chairman** Prof. S. P. Singh

Course Coordinators Dr. Anurag Sharma Dr. Minakshee Mahananda

Organized by

Department of Civil Engineering National Institute of Technology Rourkela Odisha, India (769008)

ABOUT THE TRAINING

This hands-on training program is aimed at equipping researchers, engineers, and students with practical skills in hydraulic modeling using FLOW-3D and HEC-RAS - two widely used tools in the domain of fluvial hydraulics, river engineering, flood modeling, sediment transport, and hydraulic structure analysis. The training will combine theoretical sessions with software-based demonstrations, realworld case studies, and interactive tutorials.

TARGET AUDIENCE

- ✓ M.Tech and PhD Scholars (Water Resources, Hydraulics, Environmental Engineering)
- ✓ Faculty members and researchers
- ✓ Industry professionals and consultants
- ✓ Engineers from government & private sectors involved in river basin planning and design

Training Highlights

- Introduction to FLOW-3D and HEC-RAS
- Setting up simulation domains and boundary conditions
- Mesh generation and geometry handling
 Simulation of open channel and free surface flows
- River hydraulics and flood modeling
- Sediment transport and morphological changes
- Hydraulic structure modeling (dams, weirs, culverts)
- Post-processing and result interpretation
- Case studies from real-world river systems

Resource Persons

- 1. Trainer from Industry professionals for FLOW-3D
- 2. Trainer from Industry professionals for HEC-RAS (1D and 2D)
- 3. Expert talk from industry and academician

NATIONAL INSTITUTE OF TECHNOLOGY

ROURKELA



National Institute of Rourkela is one of the premier national level institution for technical education in the country and is funded by the Government of India. NIT Rourkela has a rich legacy of more than sixty dedicated years of service to the nation and is the pride of Odisha. The main objective of the Institute is to produce quality Engineers and Scientists in Graduate and Post-Graduate levels in various branches of Engineering and Science. Excellence in teaching and high-quality research are the pillars on which the Institute is built.

DEPARTMENT OF CIVIL ENGINEERING

The department of Civil Engineering has functioning a full-fledged been as department since the inception of the institute. Presently, it is not only catering education of undergraduate and postgraduate students but also for pursuing research and development activities through research scholars. The department is actively with several research involved and consultancy projects.