



जल शक्ति मंत्रालय
MINISTRY OF
JAL SHAKTI

National Institute of Hydrology, Roorkee

DoWR, RD & GR, MoJS, Govt. of India



Training on

Free & Open-Source Tools for the Future of Water Resources Management

SEPT 07-11, 2026

VENUE: NIH, Roorkee

Course Director

Dr Y.R.S. Rao, Director, NIH

Course Convenor

Dr P.C. Nayak, Head, SWHD, NIH

COURSE COORDINATORS

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This five-day programme introduces participants to a complete toolkit of free and open-source software for modern water resources management – from accessing satellite and gridded climate data, to GIS-based watershed analysis, statistical hydrology, rainfall–runoff and design–flood modelling, and the emerging role of AI and machine learning.

Every session is lab-based and hands-on. Participants will work with real Indian datasets and industry-standard open tools that they can continue to use in their own research and practice.



Register

<https://forms.gle/N8EjPLBiBdebA1kp8>

Registration

Course Fee

Students: Rs.8000/-

Working Professionals: 12,000/-

The registration fee is to be paid in-advance through on-line transfer in the bank account provided below.

Account Name: NIH PROJECT
Account No: 4044 0001 0017 4852
Bank: PUNJAB NATIONAL BANK (PNB)
Branch: IIT ROORKEE
IFSC code: PUNB0404400

The registration is open till
21st Aug 2026

Course Fee Inclusions

- Training kit
- Working Lunch & Session Tea

Accommodation on sharing basis at the NIH guest house for the training period may be arranged on-payment basis subject to availability of rooms. Participants should make booking in-advance by sending a request to coordinators.

COURSE CONTENT

ABOUT NIH



NIH is a premier research and development organisation in the area of hydrology and water resources in India. The Institute was established in 1978, as an autonomous society under the Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti, Government of India, with its headquarters at Roorkee. NIH is an ISO 9001:2015 Certified organization.

- Open-Source GIS for Water Resources

- Free Hydro-Met Data Access

- AI & Machine Learning in Hydrology

- Rainfall-Runoff & Design Flood Modelling

- Statistical Hydrology with Hands-on

- Irrigation Performance Assessment

- Hands-on Group Mini Project + NIH Labs Visit

IMPORTANT NOTE!

- The seats to the course are limited and shall be filled on a first-come, first-served basis after the payment of registration fees and submission of the registration form.
- Participants are required to carry laptops for hands-on exercises during the course.
- Accommodation on a sharing basis at the NIH guest house for the training period may be arranged on a payment basis, subject to the availability of rooms. Participants should make a booking in advance by sending a request to the coordinators.

