

About CWPRS

Established in 1916, the Central Water and Power Research Station (CW&PRS), Pune, is the premier National Institute devoted to water and power resources development and water-borne transport. The scope and magnitude of the services offered by CW&PRS cater to the research and development needs of the country. As the UN recognized Regional Laboratory for ESCAP region, CW&PRS has offered its services in following major disciplines.

- River Engineering
- River and Reservoir System Modeling
- Reservoir and Appurtenant Structures
- Coastal and Offshore Engineering
- Foundation and Structures
- Applied Earth Sciences
- Instrumentation, Calibration & Testing Services

For more details about CW&PRS, please visit www.cwprs.gov.in

Venue and Date

The online training course will be held between 1000 hrs to 1600 hrs from 29th to 30th September, 2026 using an online web tool from Central Water & Power Research Station (CWPRS), Khadakwasla, Pune-411024.

Target Group

The training course is intended for Serving Engineers of Government departments / PSUs, Professionals / practicing and design engineers, Post Graduate Students, Academicians and Researchers who are involved in Hydraulic design and execution of reservoir and appurtenant structures.

Registration & Participation

Interested participants can register themselves by sending their registration forms attached with the brochure to coordinator / Co-coordinator in the mail provided in the brochure. A digital certificate of participation will be issued for the registered participants. However, an approved list of participants will only be allowed to attend the online sessions.

Participants can register by clicking on the link below and filling out the registration form on or before 25th, September, 2026.

<https://forms.gle/L7AgkqRxXhZRMEDT8>

Fee Structure

The registration for this online training course is Nil.

For any further information, please contact:

1) Course Coordinator:

Shri M. K. Verma, Scientist 'E'

Ph.No. 020-24103456 / 9423209515

Email: verma.mk@cwprs.gov.in

2) Co-Coordinator:

Mrs. Sushma Vyas, Scientist 'D'

Ph.No. 020-24103345 / 9503019390

Email: vyas.sj@cwprs.gov.in

3) Training Management Cell

Ph. No: 020-24103415

CW&PRS, Khadakwasla, Pune-411024

Email: Tmc.cwprs.2023@gmail.com



Online Training Course on “Use of Numerical Modeling in Water Resource Sector”

Date: 29th to 30th September, 2026



Government of India

Ministry of Jal Shakti

Department of Water Resources,

River Development and Ganga Rejuvenation

Central Water & Power Research Station

Khadakwasla, Pune-411024

Dr. Selva Balan

Director

Registration Form

Name: _____

Designation: _____

Organization: _____

Mailing Address: _____

Tel: (Off) _____ (Res) _____

Mobile No: _____

Fax: _____

E-mail: _____

Enclosed please find DD No. _____

Dated _____ for Rs. _____ drawn on
_____ towards registration
fee or Bharat Kosh Payment
details _____

Accommodation required: Yes/No

Date: _____ Signature of the Participant

Preamble

Numerical modelling has emerged as a powerful tool for planning, design, analysis, and optimization of water resources projects, enabling engineers to simulate complex hydraulic processes with improved accuracy and efficiency. To enhance the technical capabilities of professionals in this field, the Central Water and Power Research Station (CWPRS), Pune, is organizing an Online Training Programme on "Use of Numerical Modelling in the Water Resources Sector."

The programme focuses on practical applications of CFD for modelling hydraulic structures such as spillways, aerators, desilting basins, and transient analysis of water conductor systems. In addition, it covers river modelling using one and two-dimensional approaches for flood routing, river training works, and bank protection studies, as well as reservoir modelling for assessing sedimentation patterns, and operational performance of reservoirs.

Through expert lectures, software demonstrations, and case studies based on real engineering projects, participants will be introduced to advanced computational techniques used in Water Resource Sector.



- ☐ Last Date: 25th September 2026
- ☐ Free course with Digital Certificate

Course Objectives

- ☐ To provide an understanding of numerical modelling concepts and applications in water resources engineering.
- ☐ To demonstrate FLOW-3D applications for spillways, aerators, desilting basins, and transient /Surge analysis.
- ☐ To introduce HEC-RAS modelling for river training, bank protection, and reservoir sedimentation studies.
- ☐ To introduce numerical modelling in Geotechnical Engineering for safer hydraulic structures.
- ☐ To enhance practical skills through case studies and simulations.

