

About CWPRS

Established in 1916, the Central Water and Power Research Station (CWPRS), 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 CWPRS cater to the research and development needs of the country. As the UN recognized Regional Laboratory for ESCAP region, CWPRS 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 CWPRS, please visit

www.cwprs.gov.in

Venue and Date

The course will be held during 20-21 August, 2026 at Central Water & Power Research Station (CWPRS), Khadakwasla, Pune-411024.

Target Group

The training course is intended for practicing Engineers, Research Scientist, Academician and Consultants involved in coastal and offshore Engineering as well as students. Total number of participants is limited to 100.

Registration and Participation

The nomination of the participants may be sent to the programme coordinators latest **by 16th August, 2026**. The registration fee for this online training course is **NIL**.

However, only approved list of participant will only be allowed to attend the online sessions. A digital certificate of participation will also be issued for the registered participants. All interested participants need to send email (from approved email-Id's) to the organiser (cwprs.coastal@gmail.com) along with details as mentioned in the registration form. The link for joining the online training course will be shared to registered participants only. Confirmation of nominations will be intimated by 18th August, 2026.

Fees Structure

The registration fee for this online training course is **NIL**.

Contact

For sending nomination or for any other information with regard to course, please contact:

Course Coordinator

Shri M. M. Vaidya, Scientist 'E'
CW&PRS, Khadakwasla, Pune -411024
Email: vaidya_mm@cwprs.gov.in;
Ph. No.: 020-2410 3451; Mob (9850888278)

Course Co – Coordinator

Shri A. Basu, Scientist 'D'
CW&PRS, Khadakwasla, Pune -411024
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Online Training Course On

“Modeling for Development of Port & Harbour & Climate Change” 20 – 21 August 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. M. Selva Balan
Director

Preamble

India is having a long coastline of about 7500 km facing Arabian Sea, Indian Ocean & Bay of Bengal. The coastal areas are precious with fertile soil, industrial establishments, ports and harbours and fishing activities. There is need to augment existing waterfront facilities and develop new port/harbour structures to cater the demand of deep draft vessels in future. However, these developments may impose many socio-economic challenges which require judicious use of modelling techniques to arrive at optimal design layouts of ports/harbours which can sustain the Ocean-environmental impacts likely to occur in future. Thus, environment friendly measures are of paramount importance for sustainable development of Ports & Harbour.

Course Objective

Knowledge of various coastal processes, field data and modelling techniques is necessary for the development of Ports & Harbours. A programme in the form of a training course is conceived to impart training to the professionals / officers working in concerned departments as well as students. The purpose of the course is not only to create awareness about various coastal phenomena, but also to cover modelling techniques and design aspects in the development of Ports & Harbour facilities.

Course Content

The course consists of lectures by expert professional from Central Water & Power Research Station. The lectures would cover theory and typical case studies will also be discussed.

The training course covers the following topics:

- ✓ **Overview of Coastal Engineering**
- ✓ **Basics of Wave Mechanics**
- ✓ **Basics of Tidal Hydrodynamics**
- ✓ **Field data for development of Ports & Harbours**
- ✓ **Physical Tidal modeling technique**
- ✓ **Physical Wave modeling technique**
- ✓ **Mathematical modeling techniques in Port development**
- ✓ **Design of Coastal Structures**
- ✓ **Geotechnical safety aspects of coastal structures**
- ✓ **Application of Remote sensing in Coastal Engineering**
- ✓ **Climate Change & Coastal Engineering**
- ✓ **Applications of AI/ML in Coastal Engineering**

Registration Form

Name (in capitals): _____

Designation: _____

Organization: _____

Responsibilities (in brief): _____

Full Postal Address: _____

Tel Nos. (with STD Code): _____

Mobile: _____

Fax No: _____

E-mail: _____

Date

(Signature of the participant)