

NATIONAL WATER ACADEMY, PUNE
4th International Distance Learning Course in Advanced topics in Hydraulics,
Hydrological Sciences and Hydro-meteorology for Asian Region (WMO RA-II)
31 MAY 2021 – 16 JULY 2021

REGISTRATION FORM

Name (in Capital): _____

Designation: _____

Date of Birth: _____

Organization: _____

Responsibilities (in brief): _____

Full Postal Address: _____

Telephone Nos (with STD Code): _____

Fax No (with STD ode): _____

Mobile: _____

E-mail: _____

Date _____ (Signature of the participant)

SPONSORING AUTHORITY

Full Postal Address: _____

Telephone Nos: _____

(With STD Code)

Fax No.(with STD ode): _____

Mobile: _____

Email: _____

Date _____ (Signature and Seal)

Completed Registration Form may be sent by
Fax to: 020-24380110 or email to nwa.mah@nic.in



**GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI,
DEPARTMENT OF WATER RESOURCES,
RIVER DEVELOPMENT & GANGA REJUVENATION
CENTRAL WATER COMMISSION**



**4TH INTERNATIONAL DISTANCE LEARNING COURSE IN
ADVANCED TOPICS IN HYDRAULICS, HYDROLOGICAL
SCIENCES AND HYDRO-METEOROLOGY
FOR ASIAN REGION (WMO RA-II)**

31 MAY 2021 TO 16 JULY 2021

**Organized by
NATIONAL WATER ACADEMY
in association with
WORLD METEOROLOGICAL ORGANIZATION
and
UCAR, THE COMET PROGRAM, USA**

INTRODUCTION

While Planet Earth is endowed with abundant water, the needs for water at specific times and places often exceed the available supplies. Efforts to utilize this precious resource often result in adverse social and environmental impacts, causing disruption of water supplies to downstream users, and the loss of aquatic habitats. In addition to conflicts over water availability, the quality of water is often compromised.

The branch of Geophysics, which deals with the occurrence and movement of water in terms of quantity and quality on and below the surface of the earth except the oceans, in vapour, liquid or solid state, is termed as Hydrology. Hydrology plays an important role in Effective management of surface-water & ground-water resources for domestic, agricultural, commercial, industrial, recreational and ecological uses.

NWA conducted Distance learning programs in Basic Hydrological sciences in the past which were designed to meet the needs of officials, who work with hydrologic data, particularly in the areas of flood forecasting and design flood analysis etc. The advanced course is designed to meet the needs of hydrological forecasting who require more advanced training in selected hydraulic and hydrological modeling topics.

PROGRAM OBJECTIVE

Upon completion of this course, participants will be able to:

- Describe basic features of dams, dam failure modelling and river hydraulics;
- Explain the advantages of using distributed hydrological models, associated data requirements and possible limitations;
- Define key motivations and purposes of performing forecast verification;
- Explain techniques for measuring rainfall and processes leading to rainfall, including climate cycles such as seasonal monsoons, ENSO, MJO.

PROGRAM FORMAT

The course will be centred upon ten required and one out of four optional distance learning modules developed by COMET and NWA. Participants will be required to complete an online quiz at the completion of each module. The modules can be downloaded directly from either the course or the COMET website. The course will also include two live events (webinars) to be attended via internet at the start and close of the course, as well as weekly online communications (through the course forum) with course instructors and fellow participants.

The live sessions and online communications will allow participants to ask questions, share their issues and experiences, and learn more deeply by discussing the course content with their peers and the instructors. In addition to mastering the course content, each participant will be required to complete a short final assignment on a topic to be selected among four available options. All the activities viz. modules, quizzes, assignments etc. will be online at the

program website at <https://etrp.wmo.int/>. On successfully completing the course assignment and the online quizzes for each module, the participants will be awarded certificate of completion.

It is estimated that the dedication needed to successfully complete this course is a total of about 35-40 hours, or an average of about 6-8 hours/week. As this is an online course, the officials can participate in the program without taking any leave from the office. The sponsoring authority will have the responsibility of sparing the nominated officers from their routine work for those many hours during the program period and give them access to a computer with broadband.

FACULTY

The faculty will be drawn from the core faculty of NWA, CWC and other experts of the relevant topics. The faculty will be available for online and offline interaction during the program duration.

TARGET GROUP

The DL program is intended to benefit the officers (hydrologists/meteorologists) working in State and Central Govt. agencies involved in the Water Resources Development and Management. Please take into account that number of available nominations for the course is limited. **This advanced course is only open to the participants who have successfully completed the Course on Basic Hydrological Sciences.**

PROGRAM FEE

There is no program fee.

PROGRAM DURATION

31 May 2021-16 July 2021 (7 Weeks)

PARTICIPATION

The nomination of the officers (for India) fitting the target profile may be sent to the Program Coordinator latest by 07th May 2021. Confirmation on acceptance of nominations will be sent by email by 14th May 2021. Nominated /Sponsoring officers may please indicate their Fax No./Mobile No. and E-mail address for timely information on this account. The accepted participants will be provided with an enrollment key to enable them to login on to the program website. The nominated officers have to attend this program from their existing place of duty and they are not supposed to come to NWA for the same.

CONTACT

For sending nominations or for any information of this Program, Please contact :

S N Pande

Director & Program Co-ordinator
National Water Academy, CWC,
Khadakwasla, Sinhagad Road,
Pune – 411 024; Tel: 020 – 24381212 Fax: 020-24380110;
Mob :9873163630
E-mail: nwa.mah@nic.in / shailendrapandenwa@gmail.com
Website: <http://nwa.mah.nic.in>