

NATIONAL WATER ACADEMY, PUNE
6th International Distance Learning Course in Basic Hydrologic Sciences for Asian
Region (WMO RA-II)
27 JULY 2020 -11 SEPTEMBER 2020

REGISTRATION FORM

Name (in capitals): _____

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



**6TH INTERNATIONAL DISTANCE LEARNING COURSE IN
BASIC HYDROLOGIC SCIENCES FOR ASIAN REGION
(WMO RA II)**

27 JULY 2020 – 11 SEPTEMBER 2020

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

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.
- Protecting and enhancing water resources for human health, aquatic health and environmental quality.
- Minimizing loss of life and property as a result of water-related natural hazards, such as floods, droughts and land slides.
- Contributing to physical and economic development of the Nation's resources for the benefit of present and future generations.

The Distance learning program in Hydrology (Basic Hydrological sciences for India) is 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 course (in English only) is intended to provide an understanding of the hydrological cycle, runoff processes, unit Hydrograph, flood forecasting, elements of hydrologic modeling etc. and will prepare the participants for further study in hydrologic methods and forecasting.

PROGRAM OBJECTIVE

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

- Understand the elements of the hydrologic cycle
- Explain the rainfall runoff process
- Grasp Hydro-Meteorological Data collection & validation techniques
- Describe the process of stream flow routing
- Derive and Use a unit hydrograph for forecasting flows
- Apply various hydrological modelling methods for streamflow routing
- Apply statistical methods to assess flood risk

PROGRAM FORMAT

The program contains 8 online modules including a flood forecasting case study. In addition, participants can complete 2 optional modules as per their interest. Participants will be required to complete an online quiz at the completion of each module. The course will also include minimum two live events (webinars) to be attended via internet at the start and close of the course, as well as weekly online communications with faculty 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 faculty. In addition to covering the course content, each participant will be required to complete a short final assignment. 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 and 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. Computer skills and aptitude for this subject is a pre-requisite. Participants must have access to a broadband connection at home or at office. There will be about 50 participants for this course; 20 participants (to be nominated by WMO) will be drawn from countries of Regional Association – II, WMO (Asian Countries) and about 30 participants from India.

PROGRAM FEE

There is no program fee.

PROGRAM DURATION

27 July 2020 – 11 September 2020 (7 Weeks)

PARTICIPATION

The nomination of the officers (for India) fitting the target profile may be sent to the Program Coordinator latest by 30th June 2020. Confirmation on acceptance of nominations will be sent by email by 14 July 2020. 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>



No. A-33025/70/2020-21/NWA/

Dated: 27 April 2020

To,

The Heads

Central & State Water Resources Departments

NHP Implementing Agencies / WALMIs/IMTs

Academic Institutes/PSUs etc.

Sub: 6th International Distance Learning Course on “**Basic Hydrologic Sciences for Asian Region (WMO RA-II)**” being organized by the National Water Academy (NWA) in association With World Meteorological Organization (WMO) – nominations – reg.

Sir /Madam,

As you are aware that NWA is a Regional Training Centre of WMO and jointly conduct Distance Learning (DL) Programs. In the series of DL Programs, 6th International Distance Learning Course on “Basic Hydrologic Sciences for Asian Region (WMO RA-II)” is being organized during 27 July – 11 September 2020. A copy of the information brochure giving details of the program is enclosed for ready reference. The detailed information about this program is also available in our website under <http://nwa.mah.nic.in> under the link “Upcoming events”.

The DL Program in Hydrology is 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 program is completely online and do not require attending classroom sessions at NWA. The program format consists of training material in the form of online modules which are downloadable; quizzes; Webinar; on-line assignments etc. During the program the expert faculty will be available for online and offline interactions & discussions with the participants. The participants will be awarded a certificate of completion.

Your organization may like to take benefit of this DL Program and nominate suitable officers for participation in the DL Program. Please send the nominations to NWA positively by 30th June 2020 by e-mail [nwa.mah@nic.in / shailendrapandenwa@gmail.com]. The list of the accepted nominations will be placed on our website <http://nwa.mah.nic.in> under the link ‘upcoming events’ on 14th July 2020. For accepted nominations, e-mail ID & Mobile number of the participants are prerequisite for smooth conduct of the course. 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.

Yours Sincerely,

Encl: As above.

Sd/-

S N Pande

Director

&Program Co-ordinator





No. A-33025/70/2020-21/NWA/

Dated: 27 April 2020

To,
The Senior Joint Commissioner,
National Project Management Unit,
National Hydrology Project, DoWR, RD & GR, MoJS,
New Delhi – 110 003
deepak.kumar@gov.in/sjc1nhp-mowr@gov.in

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Yours Sincerely,

Encl : As above

S N Pande
Director
& Program Co-ordinator

Copy to: The Director, RDC-1 Directorate Central Water Commission Wing-4, 2nd Floor, West Block-1 R. K. Puram, New Delhi Phone: 91-11-26100285 Fax: 91-11-26181267 Email: rdcdte-cwc@nic.in



भारत सरकार
केन्द्रीय जल आयोग
राष्ट्रीय जल अकादमी



Government of India
Central Water Commission
National Water Academy

No. A-33025/70/2020-21/NWA

Dated: 27 April 2020

To,
The Director
Training Directorate
Central Water Commission
Room No.004, New Library Building,
R K Puram, New Delhi – 110 066

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Yours Sincerely,

Encl: As above.

Sd/-
S N Pande
Director
& Program Co-ordinator

Copy for kind information to:
PPS to Chairman, CWC, New Delhi.

