



संख्या: ए-33025/70/2023-24/NWA/4810-16

दिनांक: 02.08.2023

सेवा में,

1. All the Heads of all the Organisations under DoWR, RD & GR, Ministry of Jal Shakti, New Delhi
2. All the Principal Secretary, State Water Resources /Irrigation Department
3. All the Engineer-in-Chief, State Water Resources / Irrigation Department
4. All the Chief Engineer, CWC (HQ)
5. All the Regional Chief Engineer, Field Offices
6. All the Head of WALMIs/IMTIs
7. All the Nodal Officers of NHP Implementing Agencies

विषय: राष्ट्रीय जल अकादमी, केन्द्रीय जल आयोग, पुणे में "Seventh International Distance Learning Course in Hydrology - Basic Hydrologic Sciences for the Asian Region (2023)" विषय पर 03 October 2023-17 November 2023 तक दूरस्थ प्रशिक्षण कार्यक्रम का आयोजन - नामांकन संदर्भ में।

महोदय/ महोदया,

राष्ट्रीय जल अकादमी में "International Distance Learning Course in Hydrology - Basic Hydrologic Sciences for the Asian Region (2023) " विषय पर 03 October 2023-17 November 2023 तक दूरस्थ प्रशिक्षण कार्यक्रम का आयोजन किया जा रहा है।

यह कार्यक्रम राष्ट्रीय जल अकादमी द्वारा , विश्व मौसम विज्ञान संगठन (WMO) के सहयोग से आयोजित किया जा रहा है। इस कार्यक्रम संबंधी प्रमुख बिन्दु पृष्ठांकित (overleaf) है। कार्यक्रम विवरणिका (Program Brochure) संलग्न है।

अनुरोध है कि संलग्नक में दिए गए स्तर के अधिकारियों को इस कार्यक्रम से लाभ उठाने हेतु यथा शीघ्र नामित करने का कष्ट करें। यह प्रशिक्षण कार्यक्रम में भाग लेने हेतु कोई भी प्रोग्राम शुल्क नहीं है।

भवदीय,

संलग्नक: उपरोक्त अनुसार

(एस एन पाण्डे)
निदेशक

एवं कार्यक्रम समन्वयक

CENTRE OF EXCELLENCE IN WATER SECTOR

खडकवासला, पुणे -सिंहगढ़ रोड, पुणे -411 024
टेलीफोन: 020-24381212/ #9873163630
फैक्स: 020-24380110/24380224
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Conserve Water- Save Life

जल संरक्षण सुरक्षित भविष्य

No.:A-33025/70/2023-24/NWA

Dated 02.08.2023

Sub: Seventh International Distance Learning Course in Basic Hydrologic Sciences for Asian Region (WMO RA-II) being organized by the National Water Academy (NWA) in association With World Meteorological Organization – Nominations – reg.

Sir /Madam,

As you may be aware that NWA is a component of Regional Training Centre of WMO and it regularly conducts Distance Learning (DL) Programs in association with WMO. Seventh International Distance Learning Course in Basic Hydrologic Sciences for Asian Region (WMO RA-II) is proposed to be organized by the National Water Academy (NWA) in association with World Meteorological Organization (WMO) during 03 October 2023 – 17 November 2023. 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 which 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.

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 22nd September 2023 by e-mail [nwa.mah@nic.in / shailendrapandenwa@gmail.com]. The list of the accepted nominations will be placed in our website <http://nwa.mah.nic.in> under the link 'upcoming events' on 26th September 2023. 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

S N Pande
Director
&Program Co-ordinator

CENTRE OF EXCELLENCE IN WATER SECTOR

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जल संरक्षण सुरक्षित भविष्य



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Conserve Water- Save Life

NATIONAL WATER ACADEMY, PUNE
7th International Distance Learning Course in Basic Hydrologic Sciences
for Asian Region (WMO RA-II)
03 October 2023- 17 November 2023
REGISTRATION FORM

Name (in Capital): _____

Designation: _____

Date of Birth: _____

Organization: _____

Responsibilities (in brief): _____

Full Postal Address: _____

Telephone No (with STD Code): _____

Fax No.(with STD ode): _____

Mobile: _____

Email: _____

Date (Signature of the participant)

SPONSORING AUTHORITY

Full Postal Address: _____

Telephone Nos: _____

(With STD Code)

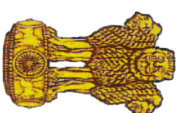
Fax No.(with STD ode): _____

Mobile: _____

Email: _____

Date (Signature and Seal)

Completed Registration Form may be sent by email to:
nwa.mah@nic.in / shailendrapandenwa@gmail.com



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



7TH INTERNATIONAL DISTANCE LEARNING COURSE IN
BASIC HYDROLOGIC SCIENCES FOR ASIAN REGION
(WMO RA II)

03 October 2023 – 17 November 2023

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 Basic Hydrological sciences 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 hydrologic 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 will need to complete 2 elective 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 100 participants for this course; 35 participants (to be nominated by WMO) will be drawn from countries of Regional Association – II, WMO (Asian Countries) and about 65 participants from India.**

PROGRAM FEE

There is no program fee.

PROGRAM DURATION

03 October 2023 – 17 November 2023 (7 Weeks)

PARTICIPATION

The nomination of the officers (for India) fitting the target profile may be sent to the Program Coordinator latest by 22nd September 2023. Confirmation on acceptance of nominations will be sent by email by 26 September 2023. 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 National Water Academy, CWC

& Program Coordinator

Khadakwasla, Sinhagad Road,

Pune – 411 024

Tel: 020 – 24381212 ;

Mob : +919873163630

E-mail: nwa.mah@nic.in / shailendrapandenwa@gmail.com

Website: <http://nwa.mah.gov.in>