



Our ref.: 07786/2025/S/HWR

17 June 2025

Subject: Nominations for the Distance Learning Course in Hydrology I:
Basic Hydrological Sciences for Asian Countries

Action required: Nominate **by 2 July 2025**, up to two professionals working in hydrology to
participate in this course

Dear Sir/Madam,

I am pleased to inform you that, in view of the success of previous editions of the course, WMO and the National Water Academy (NWA) of India are organizing the eighth International Distance Learning Course in Basic Hydrological Sciences – 2025 for Regional Association II (Asia) (WMO RA II), from 7 July to 15 August 2025.

The course is designed to meet the needs of professionals who work with hydrologic data, particularly in the areas of flood forecasting and flood analysis. The course (in English only) will address: the hydrological cycle; runoff processes; the unit hydrograph theory; flood forecasting; flood data analysis; elements of hydrologic modelling etc.; and will prepare the participants for further study in hydrologic methods and forecasting.

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

- Understand the elements of the hydrologic cycle
- Explain the rainfall runoff process
- Understand how to measure river discharge
- Describe the process of stream flow routing and the modelling methods used
- Derive and use a unit hydrograph for forecasting flows
- Apply statistical methods to assess flood risk
- Explain important differences between floods and flash floods
- Apply your knowledge of hydrologic sciences to a flood forecasting case

The course will be centred upon eight required and two optional distance learning modules developed by the Cooperative Programme for Operational Meteorology, Education, and Training (COMET) and by NWA. The optional modules will be provided for further learning, but completion of the optional modules is not required. Participants will be required to complete an online quiz at the completion of each module.

The course will also include two optional live events (webinars) to be attended via internet at the start and close of the course, as well as weekly online communications with course instructors and fellow participants. The live sessions and online communications will allow participants to ask questions, share their regional issues and experiences, and learn more deeply by discussing the course content with their peers and the instructors.

To: Permanent Representatives of Members of RA II with WMO (limited distribution)
cc: Hydrological Advisers (limited distribution)

Each participant will be required to complete a short final assignment, such as creating and sharing a short case study or report on local/regional climatology and hydrologic forecast systems. Participants who successfully complete the assignment and pass the online quizzes for each module will receive a certificate of completion. The total time dedicated for the course is estimated to be between 21 and 25 hours, averaging approximately 4 to 5 hours per week. Supervisors are encouraged to support participants by allowing them to dedicate this time free from regular work responsibilities.

I would appreciate it, if you could nominate up to two candidates to participate in this course, by emailing their names and email addresses to the contacts below, **no later than 2 July 2025**. This will allow sufficient time to send to the accepted participants the relevant course credentials before the opening date.

Nominations should be sent to: Mr Nirina Ravalitera (nravalitera@wmo.int),
with copy to: Ms Silvana Alcoz (salcoz@wmo.int).

Please note that the number of available places is limited, as there will be one instructor answering questions from the participants and reviewing their exercises on a continuous basis. However, should you wish to nominate more than two candidates, you are welcome to do so, and we will take them into consideration should some additional places become available.

I would like to take this opportunity to thank you for your continued support to WMO activities.

Yours faithfully,



Ms Ko Barrett
for the Secretary-General