



**Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Water Commission**



Training Program on Hydrological Modeling using Free Tools (16 - 21 February 2026)



**Organized by
NATIONAL WATER ACADEMY, PUNE**

INTRODUCTION & BACKGROUND

Hydrological Modeling plays a vital role in understanding the water cycle and predicting key hydrological processes such as rainfall-runoff, evapotranspiration, and groundwater flow. This becomes increasingly important in the face of growing challenges associated with large scale land use changes and climate change impacts. Free and Open-source Hydrological modeling tools such as HEC-HMS and SWAT, along with GIS software like QGIS and programming language like Python, have democratized access to tools for water resources planning, management and conducting research. These free tools are not only offer cost-effective solutions but also allow for customization, enabling users to extend their functionality. Further, they come with community support for troubleshooting assistance and accessing valuable learning resources.

This training program intends to introduce some of the free tools available for hydrological modeling. By the end of the training program, participants will be able to gain familiarity with them, acquire data preparation skills, set up and run the models, analyze and interpret the results.

PROGRAM FORMAT

The program will be held in person at the National Water Academy (NWA) campus in Pune containing classroom lecture and Handson sessions

TARGET GROUP

Water Resource Professionals from Central and State Water Resources and Irrigation Departments, and other interested stakeholders

Note: Participants should bring their own laptop for completing hands-on exercises.

PROGRAM FEE

There is no program fee for participants from Central and State Govt. departments. Charges for participants from other agencies are as follows:

Category	Description	Fee per participant
A	Central/State Government/Departments including their autonomous bodies	Nil
B	'Not for Profit' Organizations/authorities/ bodies of Central and State governments (if they certify that they are not for profit)	Nil
C	Recognized academic institutions, NGOs	1,800/-
D	Central and State PSUs	12,000/-
E	Private Companies, individuals	18,000/-

- *Discounts applicable: (a) 50% for PSUs of MoJS i.e. WAPCOS & NPCC (no group discount); (b) For others – 20% discount for 3-4 participants; 30% discount for 5 or more participants from the same organization.*

For modalities in respect of payment of fees, please contact the Course Director.

LOCATION

National Water Academy is located on the south-western side of the Pune city on Pune-Sinhgad Road between Nanded Phata and Kirkatwadi villages. It is 12 Kms from Swargate Bus Stand, 18 Kms from Pune Station and 29 Kms from Pune Airport.

[Click here for directions from Pune Airport to NWA](#)

[Click here for directions from Pune Railway Station to NWA](#)

LOCAL HOSPITALITY AND WEATHER

NWA has a self-contained residential campus, and all out-station participants would be provided with accommodation in the NWA hostels, which are comfortable and fully furnished (viz. television with cable connection, refrigerator, micro-oven, tea maker, intercom etc.). Meals are available (self-service dining) in Canteen/Mess which is on the same residential campus. Participants (except for CWC officers) are required to pay for lodging and boarding charges, which are nominal. During the month of February, normally the weather is cool, dry and pleasant, with temperatures ranging between 16°C to 32° C

PARTICIPATION

The nomination of the officers fitting the target profile may be sent to the Course Coordinator latest by 12.02.2026. Nominated officer may also fill in the online registration form: <https://forms.gle/wbRvX44LFPhS2ZNE7>

The list of accepted nominations will be displayed on the NWA website <https://www.nwapune.gov.in/ongoingevents.jsp> on 13.02.2026

CONTACT

For sending nominations or for any information on this program, please contact:

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