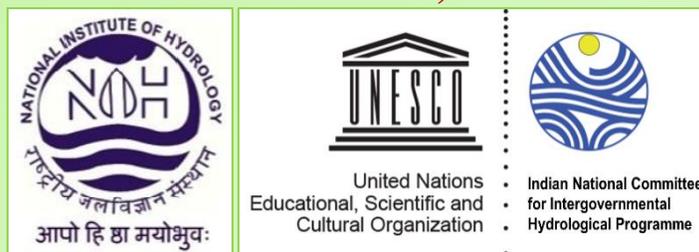


03-day virtual training workshop
on
“Eco-hydrology for Sustainable Development”
October 06-08, 2021



Organized by
Hard Rock Regional Centre, National Institute of Hydrology, Belgaum

Under the aegis of
**Indian National Committee for
Intergovernmental Hydrological Programme (INC-IHP) of UNESCO**

Background and Context

Water and forests both cover large portions of the earth and both are crucial to the sustenance of life and the environment. Water and forest are not two independent natural resources; a close linkage exists between the two. With population growth, climate change, and increasing forest disturbance, understanding the complex relationships between forests and water is the key to sustaining future forest resources, aquatic habitats, and water supplies. Research into forest and water interactions continues to expand our understanding of hydrological processes and our ability to assess the hazards associated with natural and human-related forest disturbances. Many agencies and scientific communities have carried out experimental research in understanding the benefits of forest and water, felt that there is a need for interdisciplinary research for generating an in-depth understanding of the complex relationship of water and forest under the declining forest cover and changing climate. The conceptual framework of ecohydrology offers a standardized approach to classifying and quantifying the anthropogenic impact on natural resources in ways that are meaningful in quantifying hydrological, ecological, and socio-economic terms.

In India, there have been several isolated attempts being made by various Govt. research agencies, NGOs, and Academicians to evaluate the impact of reducing forest cover and changing climate on the water, ecology, and socio-economic condition of the region. These studies have been concentrated in a small pocket located either in the Himalayas or in the Western Ghats. The results of these researches have not been properly disseminated to the policymaker and respective line departments of the states covering these regions for effective implementation in the field. Thus, there exists a gap between the researcher, the policymaker, and implementation agencies. This gap can be filled by bringing all of them to a common platform where the researchers, policymakers, and implementing agencies can interact, deliberate on important issues of their region.

Objectives

The objective of this training workshop is to provide participants with comprehensive knowledge of the entire ecohydrology concept.

Target participants

The target participants of this course are emerging researchers, academia, policymakers, NGO or implementing agencies, and consultants.

Course Structure

The course will mainly consist of lectures and some hands-on exercises. Thus, the candidates are supposed to have a desktop/laptop. The medium of the training course will be English/ Hindi.

Registration

There will be no registration fees for the proposed training workshop and the seats will be limited to 50. The course will be conducted using a Video Conferencing facility, for which the link and final schedule shall be shared in due course of time. Attendance is compulsory and e-certificates will be provided only to those participants, who will attend all the sessions. The intending participants are, therefore, requested to register themselves at the following link latest by **25th September 2021**:

https://docs.google.com/forms/d/e/1FAIpQLSe6d_AknCONrVcWU50VxXGLUxwyYSBrP5xjytxBTU9alOY8Dg/viewform

Topics proposed to be covered

- Hydrological dimension of a catchment- identification of potential threats and opportunities for sustainable development
- Shaping of the catchment ecological structure for ecosystem potential enhancement- biological productivity and biodiversity
- Ecohydrology system solution and ecological engineering for the enhancement of water and ecosystem resilience and ecosystem services
- Sharing water between humans and nature for India's ecological security
- Role of Biomimicry in ecologically sustainable water management
- Ecohydrology of Ponds/ lakes and reservoirs
- Conservation of 'wetlands- Kidneys of the landscape'
- Nature-based solutions for treating wastewater
- Ecohydrological regulation for sustaining and restoring continental to coastal connectivity and ecosystem functioning

Convener

Dr. V.C. Goyal

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