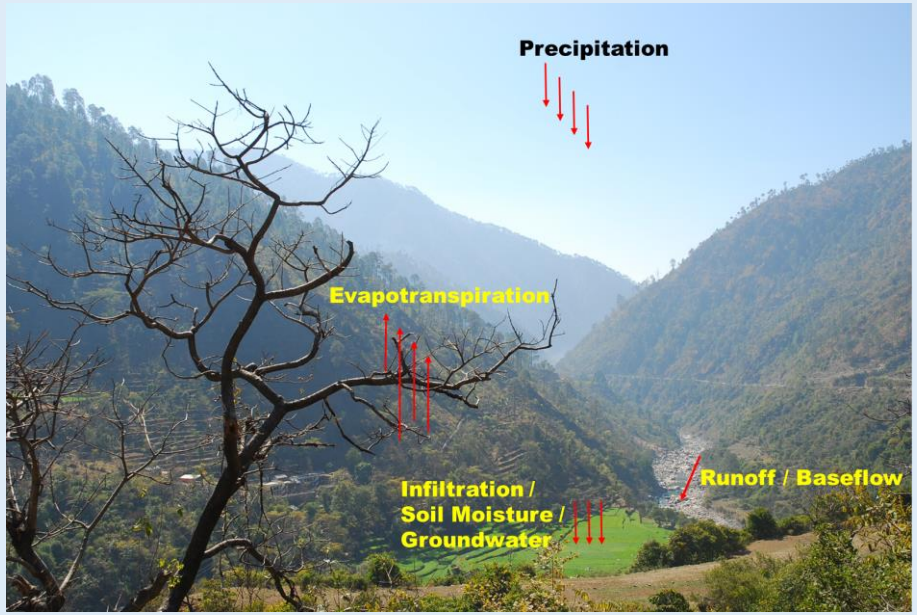

Short Course on:

Earth Observation and Geospatial Applications for Sustainable Water Resources Management

December 07 – 18, 2026

Organised by:

Indian Institute of Remote Sensing
Indian Space Research Organisation
Department of Space, Government of India, Dehradun, India

About the Course

Water resource management is a critical development challenge across the Asia-Pacific region. While arid and semi-arid countries face water scarcity, others frequently experience floods. Unequal distribution, inadequate infrastructure, and limited access to reliable water resources further contribute to social and economic inequalities. Climate change is intensifying these challenges through changing rainfall patterns, increasing droughts and floods, and rising sea levels. Shared river basins also create complex transboundary water management issues.

Remote sensing and geospatial technologies offer valuable tools for assessing water resources and supporting effective management. However, limited institutional capacity and technical expertise can constrain their application. Capacity building and knowledge exchange are therefore essential for developing sustainable water management strategies. This short course was designed to address these challenges by strengthening knowledge and skills in geospatial technologies for water resource management.

Objective of The Course

The primary aim of the course is to enhance the capacity of middle level professionals in the field of remote sensing with special emphasis on its applications in hydrology and water resources. The objective is to train professionals to acquire good working knowledge of the theory and practice of the geospatial tools and technologies for better understand the hydrological cycle and effective water resources management.

Target Group

This course is primarily meant to train middle level resource managers; professionals; and researchers from Federal and State Govt. Departments, Non-Governmental Organisations, Universities and Educational Institutions of Asia Pacific countries, in geospatial technology applications in water resources management.

Medium of Instruction: English

Course Structure: The duration of the course is two weeks

	Course Agenda
Week - I	Lectures & Hands-on: Introduction to Geospatial Technology
	Lectures & Hands-on: Overview of hydrology and Water Resources
Week - II	Lectures & Hands-on: Geospatial Technology application in hydrological parameters retrieval and water resources management

Eligibility:

- Post Graduate degree/ Undergraduate Degree / Diploma in Physics / Mathematics / Civil / Water Resources / Hydrology / Environmental / Agriculture / Meteorology (Agro/Hydro) / Geography / Geology or any other Science/Engineering, with sufficient knowledge of mathematics / statistics at High school.
- Two years work experience in relevant field.
- Age: 25 to 45 years.
- As the whole course will be conducted in English, the applicant should have proficiency in the English language.

Course Fee & Accommodation

A course fee of US $300 (equivalent to INR for Indian participants) is applicable for paid seats which includes course materials. However, for government sponsored candidates from Asia Pacific region, the Director CSSTEAP may waive off the course fee.

Preference in admission will be given to the candidates who are financially supported by their organizations. Accommodation for the participants will be arranged in the International Hostel at IIRS, Campus on chargeable basis of Rs. 120/day . Course fee may be sent through online transfer/ NEFT/RTGS/SWIFT in favor of CSSTEAP, payable at Dehradun with following bank details:

Banking Institution: Punjab National Bank
Account Name: Centre for Space Science and Technology Education in Asia and the Pacific
Account Number: 0111032100000236
SWIFT: PUNBINBBDPR
IFSC Code: PUNB0445600
Address Bank: Survey of India Branch, New Cantt. Road, Dehradun, India

Number of Seats

20: Government Nominated Candidates; **5**: Paid Seats (Private and Self-Sponsored Candidate)

Fellowship

A few fellowships covering to and fro international air travel, domestic travel in India and living expenses (INR15,500 for two weeks) in India are available from the Government of India. However, first preference will be given to the fully self sponsored candidates and then to the candidates whose sponsoring organization will be bearing international to and fro travel

Medical Insurance

Medical, life, and disability insurance should be undertaken before leaving their country for India by the participants themselves or on their behalf by their sponsoring institute/organization for covering entire health and disability risks. No medical expenses will be borne by the Centre. Candidates in sound physical and mental health only need to apply.

Medical fitness certificate from Authorized Government medical officer covering status of Eye, Chest (Tuberculosis), Vaccinations, heart, lungs, liver, spleen, Hydrocele, skin & V.D., Hepatitis, HIV, Yellow fever and other contagious diseases be enclosed with the application form. In case if any information requiring medical attention is hidden and if found during the course, the Centre will be obliged to send the candidate back to their home country any time. The travel cost will be borne either by the nominating/sponsoring authority or by the candidates themselves.

HOW TO APPLY:

Applicants should apply online through the CSSTEAP website: **https://admissions.cssteapun.org/login**

Applicants are requested to send the application forwarded by the Head of their respective institute or organisation.Self-sponsored candidates can directly submit application. Incomplete applications will not be considered for selection.

Announcement of course: August 24, 2026
Application deadline: September 20, 2026

In case of any difficulties while submitting the online form, please send an e-mail to **websupport@iirs.gov.in** Applicants are advised to check the website www.cssteapun.org regularly for further updates and information.

About CSSTEAP and IIRS

CSSTEAP was established in India in November 1995, with its headquarters in Dehradun. The center has emerged as a Centre of Excellence in capacity building in the field of space science and technology applications. For more information, visit www.cssteapun.org.

IIRS, a constituent unit of Indian Space Research Organization (ISRO), is a key player for training and capacity building in geospatial technology and its applications through training, education, and research in Southeast
Asia. The training, education, and capacity building programmes of the Institute are designed to meet the requirements of professionals at working levels, fresh graduates, researchers, academia, and decision makers.

Contact Details:

Pankaj R. Dhote (Course Coordinator)
Dr. Praveen K. Thakur (Course Director)

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www.iirs.gov.in, **www.cssteapun.org**