

About IIRS

The Indian Institute of Remote Sensing (IIRS) - is a constituent unit of Indian Space Research Organisation (ISRO), Department of Space, Govt. of India. Since its establishment in 1966, IIRS 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. IIRS is also one of the most sought after Institute for conducting specially designed courses for the officers from Central and State Government Ministries and stakeholder departments for the effective utilization of Earth Observation (EO) data.

The Institute has a strong, multi-disciplinary and solution-oriented research agenda that focuses on developing improved methods/ techniques for processing, visualization and dissemination of EO data & Geo-information for various societal applications and better understanding of Earth's system processes. State-of-the-art laboratory and field-based instrumentation and observatories network help meeting the research goals and objectives.

About Course

The advancement of earth observation has opened new avenues of research in the field of earth sciences. With the technological advancements in geo-information sciences, remote sensing has become an effective method for monitoring and investigation of various natural resources and man-made features. Two Weeks Special Course on 'Remote Sensing and GIS Applications in Hydrological Modelling and Data Assimilation' is being organized which will provide an overview of advances in earth observation data and data assimilation techniques for hydrological and hydrodynamic modelling of water resources. The main aim of this course is to spread awareness about importance of assimilation of remote sensing derived data in hydrological modelling and their innovative solutions to improve water resources management. The course is therefore of special interest for the professionals, researchers and students interested in learning utility of geospatial technology and process based models in water resources studies.

Objective

The overall objective of this two weeks short course is to make the awareness among users/researchers/professionals/decision-makers/ academicians about the recent advances and innovations in Remote Sensing and GIS applications in Hydrological Modelling and Data Assimilation.

Course Outline

The course broadly will cover following topics:

- Basics of Remote Sensing and GIS; Data Sources, Formats & Handling.
- Innovations & progress in remote sensing for Hydrological and Hydrodynamic Modelling.
- Data Assimilation Techniques and their Applications in Water Resources.
- Assimilation of Remote Sensing Derived Variables and Parameters in Hydrological Model.

Eligibility

Participants should possess a P.G. Deg. in Civil Engg./ Agri. Engg./ Water Resources/ Env. Sci./ Geology/ Hydro-informatics/ Geo-informatics/Computer Sci./ Disaster Mgmt. or equivalent with Bachelor's degree in Engg. or Science with Maths as a subject. The course will be conducted in English, the candidate should have proficiency in English language.

Course Fee and How to Apply

Course Fee: Rs. 12,000/- (Rs. 4,000: Tuition Fee + Rs. 8,000: Registration & Other Charges). Boarding & lodging charges in IIRS Hostel are extra. Applicants are requested to apply through the link: <https://admissions.iirs.gov.in>.

Contact Details

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Last date for application: ~~July 31, 2023~~ September 18, 2023
Number of Seats: 20 (all seats for Indian nationals only)

Revised



**Two weeks Special Short Course on
"Remote Sensing and GIS Applications in
Hydrological Modelling and Data
Assimilation"**

September 18 - 29, 2023

October 03 - 13, 2023



**Indian Institute of Remote Sensing (IIRS)
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