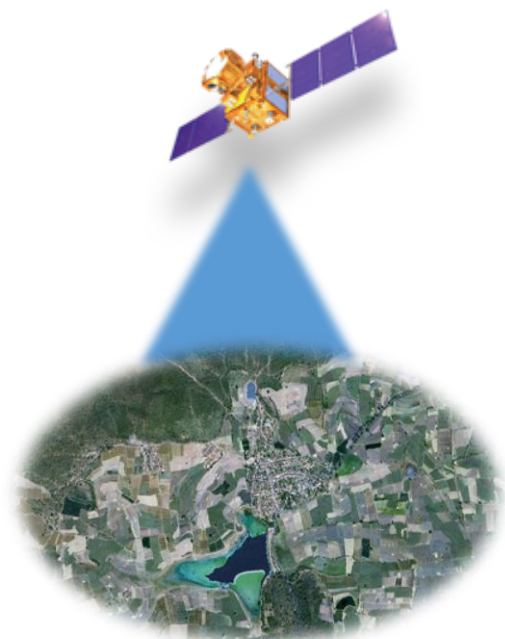


**NNRMS-ISRO Sponsored  
Certificate Courses in  
Remote Sensing & GIS Technology and  
Applications**

May 13 - July 05, 2019



**Indian Institute of Remote Sensing**  
Indian Space Research Organisation  
Department of Space, Government of India  
Dehradun - 248 001, Uttarakhand  
[www.iirs.gov.in](http://www.iirs.gov.in)

## INTRODUCTION

Geospatial Technologies including Remote Sensing (RS), Geographic Information System (GIS) and Global Navigation Satellite System (GNSS), individually as well as jointly, have revolutionized the generation of reliable and updated spatial information about the natural resources, natural and built environment and processes that are vital to informed decision making. Recognizing the need and importance of natural resources management using space technology, the Government of India had set-up the National Natural Resources Management System (NNRMS) in 1983, with Department of Space (DOS) as the nodal department. Capacity Building of human resource at different levels, from decision makers to working professionals, academia and the people at grass root level, is recognised as a critical element for effective use of the wealth of information generated by the Geospatial technologies.

With the advancements in sensor technology, availability of Earth Observation data from newer and advanced systems, processing methods and other allied geospatial and computing technologies, the capacity building requirement is growing day by day. Keeping this requirement in view, the NNRMS supports capacity building activities in the country so that the benefits of the space technology reach the society at large.

Indian Institute of Remote Sensing (IIRS) conducts NNRMS-ISRO sponsored training programme primarily for the faculty members of the university (including affiliated colleges) since 1994.

## ABOUT THE TRAINING PROGRAMME

The training programme is offered in following themes in RS & GIS technology and application domains:

- Satellite Image Analysis & Photogrammetry
- GIS Technology & Advances
- RS and GIS Applications in Agriculture & Soils
- RS & GIS Applications in Coastal & Ocean Sciences
- RS and GIS Applications in Forest Resources & Ecosystem Analysis
- RS and GIS Applications in Geosciences
- RS and GIS Applications in Urban & Regional Studies
- RS and GIS Applications in Water Resources
- Geocomputation and Visualization in Web Platforms

## OBJECTIVE

The prime objective of this programme is to train the faculty members in universities and their affiliated colleges in RS & GIS technology and

their applications, so that they can further train students in their universities and colleges.

## COURSE DURATION AND STRUCTURE

The course is of 8-weeks duration. It comprises of four modules; each module is of 2-weeks duration. The first two modules are common to all participants which deal with Geospatial Technologies focusing on fundamentals of Photogrammetry & Remote Sensing and Basics of GIS and thereafter participants attend their opted thematic modules. Participants carry out a mini-project in the chosen topic in the fourth module.

## TARGET PARTICIPANTS

- Regular/Permanent faculty members (teachers) of UGC/AICTE approved universities and their affiliated colleges, nominated by Vice Chancellor/ Principal/ Registrar/ Dean.
- Regular/Permanent Faculty members/Scientists/Engineers/ Officers, nominated by the competent authority of the Central/ State Govt. organisations/ institutions. Such candidates will be considered in case seats remain vacant; further, preference will be given to those working as faculty in training institutes.
- Temporary/ Ad hoc faculty members/Scientists/Engineers can apply as self-financed candidates and will be considered in case seats remain vacant. The application of such candidates should be forwarded by the competent authority of the institution concerned.

## NUMBER OF SEATS & ELIGIBILITY

Total 64 seats are available (including all disciplines). Please refer to the Course Calendar available in IIRS website (<https://www.iirs.gov.in/academiccalendar>) for the Essential Qualifications required to apply for each discipline, age limit and other details.

## COURSE FEE

Regular/Permanent faculty members (teachers) of UGC/AICTE approved universities and their affiliated colleges nominated by Vice Chancellor/Principal/Registrar/Dean and Regular/Permanent Faculty/Scientists/Engineers/Officers nominated by the competent authority of the Central/ State Govt. organisations/ institutions will be treated under Government-sponsored category and no course fee will be charged from such candidates, if selected. Such candidates will also be eligible for payment of 2<sup>nd</sup> AC fare by train, living allowance (@ Rs. 150 per day) and nominal local conveyance during journey as per the

provision available under this training programme and as per rules. If the candidate is travelling by Air, he/ she will be paid fare equivalent to 2<sup>nd</sup> AC train fare only. Candidates who have attended NNRMS course at IIRS within last 5 years (i.e. during 2014-2018) will not be considered; however, they can apply as self-financed candidates.

Eligible candidates failing to produce sponsorship certificate could be considered as self-financed candidates subject to payment of course fee of Rs. 12,000 (Rupees twelve thousand only).

### ACCOMMODATION

Participants will be provided accommodation in IIRS hostel. There is no charge towards accommodation from the government-sponsored candidates. Self-financed candidates, if selected, will have to pay accommodation charges @ Rs. 100 per day (subject to change as per the IIRS hostel's policy). **No accommodation will be provided to the accompanying person/ children.**

Indian food is served in the hostel mess run by the students. Participants may join the mess; the expenditure will have to be borne by the participants.

### HOW TO APPLY

Please fill up the **online application** form available in IIRS website ([www.iirs.gov.in](http://www.iirs.gov.in)). Offline applications will not be considered.

The **last date to apply** for the course is **March 18, 2019 (17:30 hrs)**.

### ABOUT IIRS

Indian Institute of Remote Sensing (IIRS) is a premier institute with a primary aim to build capacity in Remote Sensing and Geoinformatics technologies and their applications through training & education, research and outreach programmes. IIRS is a Centre of Indian Space Research Organisation (ISRO), Department of Space, Government of India. Formerly known as Indian Photo-Interpretation Institute (IPI), founded in 1966, the Institute is the first of its kind in Remote Sensing in entire South-East Asia. While nurturing its primary endeavour to build capacity among the user community by training mid-career professionals since its inception in 1966, the Institute has enhanced its programmes to meet the requirements of various stake-holders, ranging from fresh graduates to policy makers including academia, industry, different government departments and NGOs.

IIRS is one of the most sought-after institutes for conducting specially designed courses for the officers from the Ministries of the Government of India and State Governments for effective use of Earth Observation (EO) data from satellites for the benefit of society. Ministry of External Affairs, Government of India has recognised IIRS to conduct international training courses for the participants from ITEC (Indian Technical & Economic Cooperation) Member countries in Asia, Africa, Latin America, Central and Eastern Europe, and several Pacific and Caribbean nations.

IIRS also hosts the headquarters of the Centre for Space Science & Technology Education in the Asia and Pacific (CSSTEAP), affiliated to the United Nations, and conducts its training and education courses in RS & GIS.



### LOCATION & ACCESSIBILITY

Indian Institute of Remote Sensing (IIRS) is located in Dehradun, the capital city of the State of Uttarakhand, at a distance of about 260 km from Delhi and is well-connected by air, rail and road. The city is famous for its picturesque landscape, pleasant climate and high quality school education. The city also hosts several headquarters of Central Govt. organisations and it is the gateway to several places of religious and tourist importance, such as Haridwar, Rishikesh, Mussoorie, etc.



For more information and further clarification, please write to: Course Coordinator/Course Director, NNRMS or Group Head, PPEG.

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<p><b>Dr. A. K. Mishra</b> Course Director, NNRMS &amp; Scientist/ Engineer "SG"</p>	<p>Marine &amp; Atmospheric Sciences Department, Indian Institute of Remote Sensing, Department of Space, Govt. of India, 4, Kalidas Road, Dehradun - 248001, Uttarakhand Tel: 0135-2524182, Fax: 0135-2741987 Email: mishra@iirs.gov.in</p>
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