

Post Graduate Diploma in Remote Sensing and Geographic Information System

(2024 – 2025)



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Indian Institute of Remote Sensing
Indian Space Research Organisation
Department of Space, Government of India
Dehradun - 248 001, Uttarakhand
www.iirs.gov.in

INTRODUCTION

With the recent development in satellite and sensor technology, geospatial data handling, processing and modelling techniques, information technology (IT) and allied subjects, new horizons are opened up in the areas of natural resources management, sustainable exploration, environmental monitoring, natural hazard assessment, disaster management, etc. Remote Sensing technology offers efficient tools for Earth and planetary observations, feature extraction and monitoring of the surface processes in spatio-temporal domain. Improved awareness on geospatial technologies coupled with in-situ observation techniques have started contributing significantly in the management, planning and decision-making processes of various development projects like Smart cities, Digital India, National Green Highway Missions etc. in addition to well-proven applications.

Indian Institute of Remote Sensing (IIRS), a constituent of Indian Space Research Organisation (ISRO) has the mandate of capacity building for the development of high quality scientific work force in the fields of Remote Sensing, GIS, geospatial data management and allied technologies for efficient planning, implementation and monitoring of different socially relevant government schemes aimed towards overall national development as well as to cater to high-end R&D activities.

IIRS started the Post Graduate Diploma (PGD) programme in 1966. About 1915 officer trainees/students have been awarded Post Graduate Diploma by IIRS till date.

ABOUT THE COURSE

The Post Graduate Diploma programme is offered in Remote Sensing & GIS with specialization in following disciplines:

- Agriculture & Soils
- Forest Resources & Ecosystem Analysis
- Geosciences
- Marine & Atmospheric Sciences
- Natural Hazards and Disaster Risk Management
- Satellite Image Analysis & Photogrammetry
- Spatial Data Science
- Urban & Regional Studies
- Water Resources

AIM OF THE COURSE

The aim of the PGD course is to provide in-depth understanding of remote sensing, satellite image analysis, geographic information system (GIS) and Global Navigation Satellite System (GNSS) technologies and their applications in various fields such as agriculture and soils, forestry & ecology, geosciences, water resources, marine & atmospheric sciences, urban & regional studies, large-scale mapping, disaster management. etc.

COURSE DURATION AND STRUCTURE

The course is of 1 year duration, comprising of three modules. The first module is common to all the participants, which deals with Geospatial Technologies focusing on Fundamentals of Remote Sensing & Photogrammetry and Basics of GIS. In the second module, the participants will be exposed to application of geospatial technologies in their respective specialisations. Participants will carry out a pilot project in the third module.

TARGET PARTICIPANTS

This course is targeted for those who are interested to learn about the remote sensing and GIS technologies and their applications in various fields. Both the working professionals and fresh graduates (including candidates in the final semester/year of the qualifying degree) can apply for the course.

ELIGIBILITY

Please refer Course Calendar available in IIRS website (<https://admissions.iirs.gov.in/coursecalendar>) for the Essential Qualifications required to apply for each specialization, age limit and other details.

NUMBER OF SEATS

Total 30 seats are available for the course.

COURSE FEE

- Govt.-Sponsored* candidates: Nil;
- Self-financed (Indian) candidates: Rs. 72,000;
- Foreign candidates: USD 7,200.

**Govt.-sponsored candidate means only the Permanent Employees nominated by a Govt. organisation in India (Central or State Government Ministries/Departments or Autonomous Institutions and State or Central Govt.-funded Universities). Such candidates*

must submit the Nomination Form from the Competent Authority of their parent organisation/institute at the time of submitting the online application. The template of the Nomination Form can be downloaded from IIRS website (<https://admissions.iirs.gov.in>).

HOW TO APPLY

Please fill up the **online application** form available in IIRS website (<https://admissions.iirs.gov.in>). Offline applications shall not be considered. **The last date to apply for the course is March 31, 2024 (17:30 hrs)**. Candidate has to choose only one specialization at the time of applying online, which cannot be changed subsequently. If the candidate wishes to apply for P.G. Diploma as well as M.Tech., he/she has to select the same specialisation for both the courses and pay the requisite application fee.

Application Fee: For only P.G. Diploma - Rs. 1,000/- (USD 100 for foreign nationals); For both P.G. Diploma and M.Tech. - Rs. 1,500/- (USD 150 for foreign nationals). Govt.-sponsored candidates must submit the Nomination Form from the Competent Authority of their parent organisation/institute at the time of submitting the online application. The template of the Nomination Form can be downloaded from <https://admissions.iirs.gov.in/>.

ADMISSION PROCESS

Selection for admission to P.G. Diploma course is based on entrance Test Interview and Academic records. Govt.-sponsored candidates are exempted from written test and have to appear only for interview. Other candidates need to appear for Entrance Test likely to be held at Bangaluru, Dehradun, Delhi, Hyderabad, Kolkata, Jodhpur, Nagpur, Lucknow, Shillong, and Thiruvananthapuram during April-May 2024. Announcement of result will be in the first week of June, 2024. Detailed Schedule and guidelines will be published on IIRS website.

ACCOMMODATION

The lodging and boarding facilities are provided to the students at IIRS in its hostels. Local candidates will be considered for hostel accommodation, only if available. **No accommodation will be provided to the accompanying person/ children.** Indian cuisine is served in the hostel mess. The expenditure towards boarding and lodging (currently, Rs. 4,500 p.m. approx.) will have to be borne by the participants as per IIRS hostel rules & regulations. Further,

candidates will also have to pay the amount towards health insurance as informed by IIRS subsequently

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 Unit 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 entire South-East Asia celebrated Golden Jubilee Year in 2016. 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 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, high

quality school education and is the gateway to several places of religious and tourist importance.

Important Dates#

Application Starts on	10.01.2024 [10:00 hrs]
Last date to Apply	31.03.2024 [17:30 hrs]
Announcement of Results	Second week of June, 2024
Course Start Date	01.08.2024

*Picture source: https://www.isro.gov.in/EOS_06_mosaic.html

The dates mentioned above may change, and the decision of the Institute shall be final.

For more information and further clarification, please write to the details given below.

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