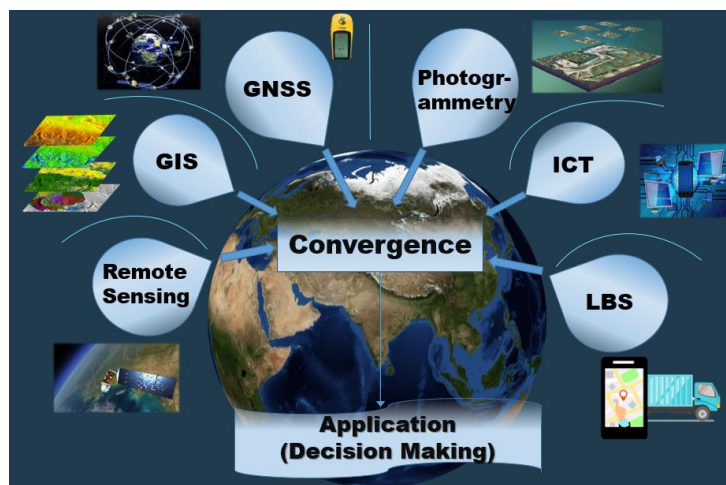


# M.Sc. in Geo-information Science & Earth Observation with Specialisation in Geoinformatics

Session (2024 – 2026)



Indian Institute of Remote Sensing  
Indian Space Research Organisation  
Department of Space, Government of India  
Dehradun -248001, Uttarakhand

[www.iirs.gov.in](http://www.iirs.gov.in)

## INTRODUCTION

Geoinformatics refers to a suite of sciences & technologies namely Remote Sensing (RS), Geographical Information Science (GIS), Global Navigation Satellite System (GNSS) and Information and Communications Technologies (ICT). The technology has immense potential in myriad application domains ranging from health, governance, natural resources management, disaster management, to name a few. This domain is technology driven and the new advances related to big data, artificial intelligence and machine learning, cloud computing etc. are being used for timely processing, handling, & managing geospatial data so as to make informed decisions. This course is designed to cater to capacity building requirements in the Geoinformatics discipline by covering the basics and advances in the field, thereby, enabling optimal use of this technology in various domains.

## ABOUT THE COURSE

The Master of Science (M.Sc.) in Geo-information Science and Earth Observation (specialisation: Geoinformatics) is offered within the framework of Joint Education Programme (JEP) of the Indian Institute of Remote Sensing (IIRS) and Faculty of Geo-information Science and Earth Observation (ITC) of University of Twente (UT), The Netherlands. Upon successful completion of the course, students receive a Master's degree from UT-ITC. The UT-ITC degree has the name 'Master of Science degree in Geo-Information Science and Earth Observation'.

## AIM OF THE COURSE

The course aims at providing critical understanding of the geo-information science and earth observation technologies for usage in various applications. Participants will gain skills in formulating and carrying out independent research in the field of Geoinformatics.

## COURSE DURATION AND STRUCTURE

The course is of 2 years duration having eight quartiles. Students follow part of the course at IIRS and part at the ITC (~5 months).

A broad structure of the programme is given below:

Year	Quartile	Course	Location
1	Q1	Core	IIRS
		Academic Skills	IIRS
	Q2	Scientific Geocomputing	IIRS
		Acquisition and Exploration of Geospatial Data	IIRS
		Academic Skills	IIRS
	Q3	Elective Course	IIRS
		Extraction, Analysis and Dissemination of Geospatial Information	IIRS
		Academic Skills	IIRS
Q4	Elective course	IIRS	
	Global Challenges, Local Action	IIRS	
	Academic Skills	IIRS	
2	Q5-6	MSc Research (proposal), Individual Study Programme & MSc Research	ITC
	Q7-8	MSc Research and Thesis Defence	IIRS

## TARGET PARTICIPANTS

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

## ELIGIBILITY, APPLICATION & ADMISSION PROCESS

Please refer to the course calendar available at IIRS website (<https://www.iirs.gov.in/iirs-course-calendar>) for details on the essential qualifications, age limit, and application & admission process for this course.

## NUMBER OF SEATS

Total 10 seats are there in this course.

## COURSE FEE

Candidate Category	ITC Fees (in Euro)	IIRS Fees
Govt. Sponsored*	Tuition Fee = € 6,375 Living allowance# = € 5,000 Insurance# = € 275 Residence permit# = € 240 ----- <b>Total € 11,890</b>	Nil
Self -Financed Indian	-do-	Rs 1,60,000
Self- Financed Foreign	-do-	USD 16,000

\*Govt.-sponsored candidate means only the Permanent Employee nominated by a Govt. organization 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 <https://admissions.iirs.gov.in>.

#The marked fee components (Living allowance, Insurance, resident permit) are subject to change according to the Dutch law, for more information please refer to <https://www.itc.nl/education/study-costs/>

## ACCOMODATION

At IIRS: The lodging and boarding facilities are provided to all students at IIRS in its hostels. All hostel rooms are well furnished and are allotted on double occupancy basis. 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 will have to be borne by the participants as per the IIRS hostel rules & regulations.

At ITC: Accommodation will be provided by ITC and charges are already included in the fee.

## ABOUT IIRS

IIRS is a premier institute with a primary aim to build capacity in Remote Sensing and Geoinformatics technologies and their applications through training, education and research programmes. IIRS is a Unit of Indian Space Research Organisation (ISRO), Department of Space, Government of India. While nurturing its primary endeavor 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 Remote Sensing & GIS.

## LOCATION & ACCESSIBILITY

Indian Institute of Remote Sensing (IIRS) is located in Dehradun, the capital city of the State of Uttarakhand. Dehradun is 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. Map Link to reach IIRS Campus is available at <https://www.iirs.gov.in/how-to-reach>

## Important Dates\*\*

Start date to Apply	10.01.2024 [10:00 hrs]
Last date to Apply	31.03.2024 [17:30 hrs]
Course Start Date	19.09.2024

\*\* The dates mentioned above may change, and the decision of the institute shall be final.

**Note:** M.Sc. degree in Geoinformation Science & Earth Observation with specialization in Geoinformatics is awarded by the University of Twente, The Netherlands. Conversion from M.Sc. in Geoinformatics (MS-GI) to P.G. Diploma in Geoinformatics (D-GI) may be allowed for genuine reason(s), subject to approval of competent authority of the Institute, approval of the ITC/University of Twente, and as per prevailing rules & regulations; decision of the Institute in this regard shall be final.

Candidates are advised to read the 'Important Information for Candidates' section given at the end of IIRS Course Calendar at the IIRS website (<https://www.iirs.gov.in/iirs-course-calendar>)

## CONTACT US:

For general & academic queries related to the course, please write to: [academics@iirs.gov.in](mailto:academics@iirs.gov.in); Tel: 0135-252-4122, 4136 (Academics, IIRS); Fax: 0135-2741987

For technical queries related to the course, please write to: [msscgi@iirs.gov.in](mailto:msscgi@iirs.gov.in)

## COURSE TEAM:

**Course Director**  
**Dr. Vandita Srivastava**  
Scientist SG & Head,  
Geoinformatics Department

**Course Coordinator**  
**Shri Kapil Oberai**  
Scientist SF,  
Geoinformatics Department