

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

Session (2022 – 2024)



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

www.iirs.gov.in

INTRODUCTION

Geoinformatics refers to suite of technologies namely Remote Sensing (RS), Geographical Information System (GIS), Global Navigation Satellite System (GNSS) and Information and Communications Technology (ICT). It is a real game changer and has huge potential in myriad application domains ranging from health, governance, natural resources management, disaster management etc. Geoinformatics is technology driven and the new advances related to Big data, machine learning, cloud computing etc. are being used for timely processing, handling, & managing geospatial data so as to make informed decision. This course is designed to cater to the capacity building requirements in the geoinformatics discipline by covering the basic 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 the Faculty of Geo-information Science and Earth Observation (ITC) of the University of Twente (UT), The Netherlands.

AIM OF THE COURSE

The course aim at providing critical understanding of the geo-information science and earth observation technology 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 a part at the ITC (~5 months). The broad structure is given in table:

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

TARGET PARTICIPANTS

This course is targeted for those who are interested to learn geoinformatics and its various applications. 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://www.iirs.gov.in/academiccalendar>) for the Essential Qualifications required to apply for this course, age limit and other details.

NUMBER OF SEATS

Total 10 seats are available in this course.

COURSE FEE

Candidate Category	ITC Fees	IIRS Fees
Govt. Sponsored*	Tuition Fee = € 6,094 Living allowance** = € 4,500 Insurance** = € 280 Residence** permit = € 174 <u>Total = € 11,048</u>	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>.

ACCOMODATION

At IIRS: The lodging and boarding facilities are provided to all students at IIRS in its hostels at nominal charges (Rs. 4,500 p.m. approx.). 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.

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, research and outreach 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.

Important Dates[#]

Start date to Apply	10.01.2022 [10:00 hrs.]
Last date to Apply	31.03.2022 [17:30 hrs.]
Admit Card for Interview	30.04.2022 onwards
Interview (online)	Second/Third Week of May, 2022

Announcement of Results	Second week of June, 2022
Course Start Date	29.08.2022

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 existing 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 (<https://www.iirs.gov.in/academiccalendar>)

For more information and further clarification, please write to:

Mr. Kapil Oberai

Course Coordinator M.Sc./PGD & Scientist/Engineer SF

Geoinformatics Department

Indian Institute of Remote Sensing

Indian Space Research Organisation

Department of Space, Govt. of India, Dehradun

Tel: +91 135-252-4128

Email: kapil@iirs.gov.in

Dr. Sameer Saran

Course Director M.Sc./PGD & Head Geoinformatics Department

Indian Institute of Remote Sensing

Indian Space Research Organisation

Department of Space, Govt. of India, Dehradun

Tel: +91 135-252-4123

Email: sameer@iirs.gov.in