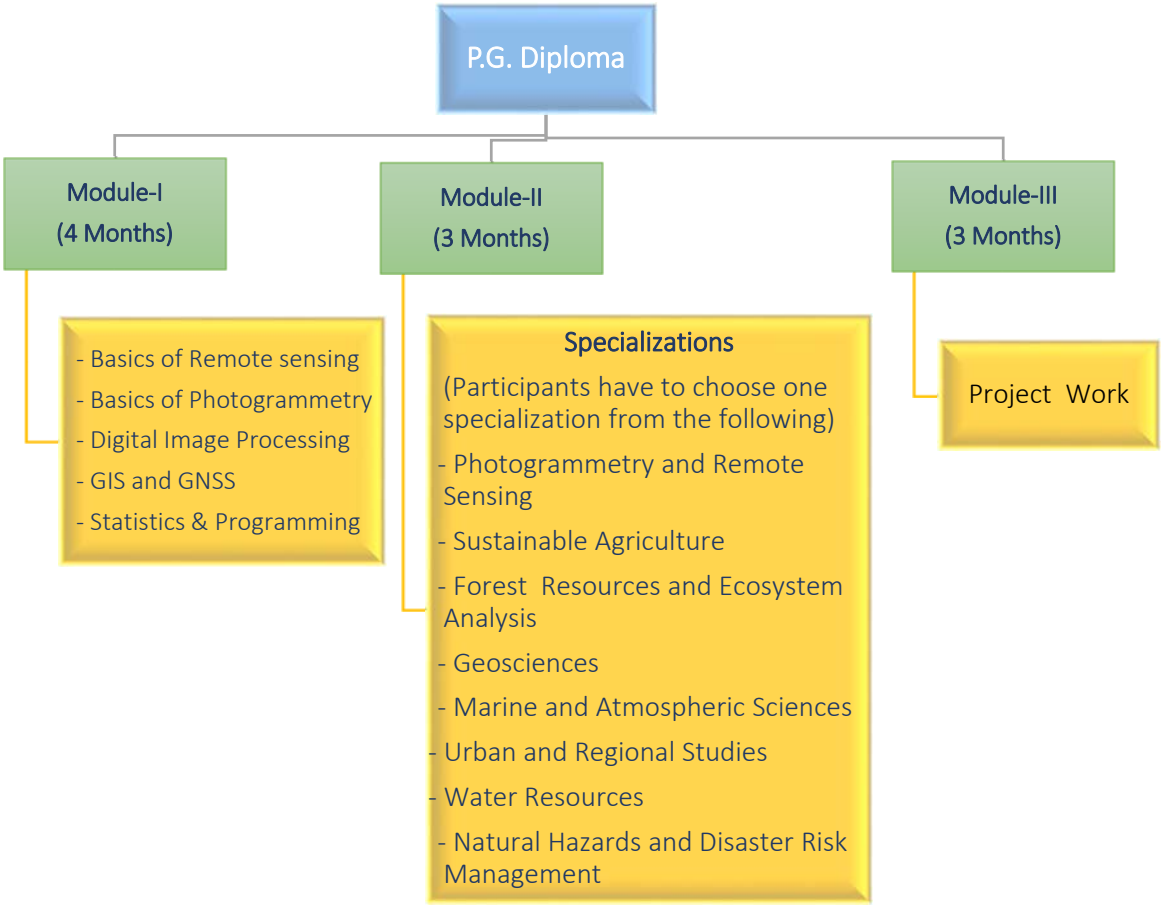
POST-GRADUATE DIPLOMA IN
REMOTE SENSING AND GEOGRAPHICAL INFORMATION SYSTEM
(August 2015 To June 2016)

Aim of the Course

The main aim of the 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 viz., agriculture and soils, forestry, geosciences, water resources, marine and atmosphere, urban and regional studies, large-scale mapping, disaster management studies, etc.

Course Structure



Specialisation	Subjects
Photogrammetry and Remote Sensing	• Emerging Sensors and Geodata Processing • Image Processing-II • Digital Photogrammetry and Mapping • Mathematics and Programming for RS and Photogrammetry
Sustainable Agriculture	• Land Use and Soil Resources Assessment • Agri-informatics • Environmental Soil Sciences • Satellite Agro-meteorology

Forest Resources and Ecosystem Analysis	• Forest Mapping and Monitoring • Forest Inventory • Forest Informatics • Forest Ecosystem Analysis
Geosciences	• Remote Sensing for Earth and Planetary Sciences • Data Processing and Analysis for Geosciences • Applied and Tectonic Geomorphology • Engineering Geology and Ground Water
Urban and Regional Studies	• Fundamentals of Urban and Regional Planning • Geospatial Technologies in Urban Area Analysis • Urban Resources, Services and Facilities • Geospatial Technologies for Urban Environmental Studies
Marine and Atmospheric Sciences	• Satellite Oceanography • Satellite Meteorology • Coastal Processes and Marine Ecology • Atmospheric and Ocean Dynamics
Water Resources	• Water Resources Assessment • Watershed Analysis and Planning • Water Resources Development • Water Resources Management
Natural Hazards and Disaster Risk Management	• Disaster Management Concepts and Overview • High Resolution Aerospace Data Analysis and Data Collection for Natural Hazards Assessment • Application of Geo-Informatics to Natural Hazards (Environmental/Hydrometeorological/ Geological) • Advance Remote sensing and GIS for Natural Hazards Study • Natural hazards and Risk Modeling (Environmental/Hydrometeorological/ Geological)

Course Fees

- For Indian government sponsored candidate: Nil
- For Indian self- sponsored candidate :₹ 60,000
- For foreign candidates : $ 6,000

Eligibility Criteria

Photogrammetry and Remote Sensing	B.E. / B.Tech. in Civil / Electronics / Electrical / ECE/ Comp. Sci. / Comp. Engg. / IT/ Geomatics /Geoinform. / Remote Sensing or equivalent OR M.Sc. / M.Tech. in Physics / Appl. Physics / Math. / Stat. / Appl. Math. / Geog. / Geoinformatics / Geomatics/ Remote Sensing or equivalent with B.Sc. in Sci. Candidates should have Math as one subject up to 10+2 level.
Sustainable Agriculture	M.Sc. in Agri./Vet. Sci./Env. Sci./Agril. Engg./Master in Geog. /B.Sc. Agri. (4 yrs)/M.Sc. Agri./ B.E. /B.Tech. in Agril. Engg. /Agric. Inform.
Forest Resources and Ecosystem Analysis	M.Sc. Forestry / Ecology / Botany / Wildlife Sci. /Biosci. / Zool. / Env. Sci. / Life Sci. / Master in Geog./B.Sc.)/M.Sc. Forestry.
Geosciences	M.Sc./M.Sc.(Tech.) / M.Tech. in Geol. / Appl. Geol. /Geophy. / Earth Sci. / Geoexplor. / Petrol. Engg. Or equivalent / Geo-Engg. / Mining Engg. / Env. Sci. /Master in Geog. / B.Tech. / B.E. in Civil Engg., Geosci., Petrol. Engg., Mining Engg., Mineral Process.

Marine and Atmospheric Sciences	M.Sc. in Marine Sci. /Earth Sci. / Physics / Oceanog./ Atmos. Sci. / Env. Sci. / Master in Geog.
Urban and Regional Studies	Master in Plng. / Arch. / Civil / Agri. / Comp. Engg./IT/Geo-inform./Env.Sc./Geog./B. Plan./B.Arch/B.E./B.Tech. in Civil/Agri./Comp. Engg. /IT/ Town Planners with 2 yrs exp., Master in Geog.
Water Resources	B.E. / B.Tech. / M.E. / M.Tech. (Civil Engg.) / Agril. Engg. / M.Sc. in Geol. / Env. Sci., Master Deg in Geog. with Math as one subject up to 10+2 level.
Natural Hazards and Disaster Risk Management	M.Sc. in Math. / Chem. / Bot. / Zool./ Geol. / Earth Sci. / Env. Sci. / Marine Sci. / Atm. Sci. / Agri. /Master in Geog. (with B.Sc. at Grad. level) OR B. Arch / B. Plann. / M. Plann. / Master in Geog. (with Science at H.Sc. level) / OR B.E. / B.Tech. in Civil Engg. / Agril. Engg. / Env. Engg. / Geosci. /Geoexplor. / Geo-Engg. / Earthquake Engg. / IT / CS/ ECE OR B.Sc. (4-yr Forestry / Agri., course) OR Master in Disaster Mgmt.
Preference will be given to Govt. Employees having Bachelor Degree in Science with minimum 2 years of experience.	

Important Dates

- Last date for applying : May 29, 2015
- Course starting date : August 17, 2015
- Passing-out date : June 17, 2016

Note: Visit IIRS website for further for updates on extension of last date of application

How to Apply?

The interested candidates/sponsoring organization may please visit IIRS website (***www.iirs.gov.in.***) and fill-up the online application form for the desired course. For P. G. Diploma, candidates can apply in maximum two specialization. IIRS will electronically convey the confirmation of admission in due course of time. For more information and further clarification, please call or send as email to;

Group Head, PPEG
Indian Institute of Remote Sensing
Department of Space, Govt. of India
4, Kalidas Road, Dehradun – 248001
Uttarakhand
Tel: 0135-2524105, 2524106, 2524109
Fax: 0135-2741987 and 2748041
Email: admissions@iirs.gov.in/ppeg@iirs.gov.in

About IIRS

Indian Institute of Remote Sensing (IIRS) under Indian Space Research Organisation, Department of Space, Govt. of India is a premier training, education and research Institute set up for developing trained professionals in the field of Remote Sensing, GIS and GNSS Technology for natural resources, environmental, and disaster management. The main aim of the Institute is Capacity building (CB) of human resource through transfer of technology to user community, education at post-graduate level in the application of Remote Sensing and Geoinformatics for natural resource management and to promote research in Remote Sensing and Geoinformatics. Its alumni include more than 9600 persons from India and 900 from abroad. So far, IIRS has trained 853 university faculty in this programme.

Our alumina are employed across the country and abroad. They are doing a great service to the nation and community. IIRS also provide limited employment opportunities to the course participants of P. G. Diploma course. However, the opportunities for a well-trained IIRS student are unlimited.

Infrastructure and Facilities

The institute is equipped with state-of-art facilities like modern classrooms, computer/digital data processing labs, in house laboratories, instrumented field observations, ground truth instrumentation and library.

Lodging and Boarding Facilities

The lodging and boarding facilities are provided to all course participants at IIRS in its five hostels. All hostel rooms are well-furnished and are allotted on double occupancy basis. Indian cuisine is served in a common mess. Foreign trainees are provided accommodation with kitchenette facilities. The campus also has recreational facilities such as gymnasium, badminton, volleyball, table tennis, party hall, billiard, basketball, lawn tennis, etc.

Location and Accessibility

Dehradun, the capital city of Uttarakhand, is located at a distance of 250 km north of Delhi. It is well-connected by air, rail, and road. The city is famous for its picturesque, landscape, pleasant climate, high quality school education, and several scientific organizations of national and international repute.