

COURSE FEE

The course fee of Rs. 12,000/- per participant (US\$ 1200/- for foreign national) (under revision) is payable before or at the time of registration. This includes cost of computer time, equipment usage, and course materials. There is a special fee structure for ITEC sponsored candidates, as specified by Ministry of External Affairs, Govt. of India, under ITEC/SCAAP program.

FELLOWSHIP

The Short course on Geoinformatics is recognised by ITEC (Indian Technical and Economic Cooperation) program of Ministry of External Affairs, Government of India. Fellowships are available for foreign students belonging to the countries covered under ITEC and SCAAP (Special Commonwealth Africa Assistance Plan) program. The fellowship covers the following assistance:

Course fee
Airfare (to & fro)
Local travel for joining the course and back
Monthly allowance of Indian Rs. 5000/- (approx. US \$ 100)

Lodging charges at IIRS Hostel
Book allowance of Rs. 1000/-
Transport and Lodging charges during field visits/study excursions
Assistance for preparing project report

ACCOMMODATION

Furnished accommodation on twin sharing basis would be provided in hostel within IIRS campus at nominal rates. Families are not accommodated. The weather during July-September is mild. It is rainy season in northern India, therefore umbrella or rain coat will be required.

HOW TO APPLY

Completed applications of foreign candidates should be routed through Indian Embassy/High Commission located in their country. Application may be sent to the

Attache ITEC

ITEC -1 Section, TC Division
Ministry of External Affairs
Room No. 1031, Akbar Bhawan
Chanakyapuri, New Delhi - 110 021, INDIA

For any information please contact

Dean

Indian Institute of Remote Sensing
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URL: www.iirs-nrsa.gov.in



Short Course on Geoinformatics

July 27th to August 24 2007

Organised by

Indian Institute of Remote Sensing
(National Remote Sensing Agency)
Dept. of Space, Govt. of India,
4, Kalidas Road, Dehradun-248001
(Uttaranchal) INDIA

Indian Institute of Remote Sensing, under National Remote Sensing Agency, Department of Space, Government of India has been training professionals to utilize Remote Sensing and GIS for natural resources management and environmental studies for more than three decades. Its alumni consist of more than 5500 persons from India including 575 from 60 developing countries.

The Institute is also engaged in conducting research and consultancy projects in almost all earth resource disciplines. Its experienced scientists offer a multi disciplinary and multi technology aspect to the training programs. The Institute is the principal host for Centre for Space Science and Technology Education in Asia and the Pacific (affiliated to United Nations) and conducts international training programs in Remote Sensing and GIS annually.

Geoinformatics is a powerful tool to create maps, integrate information, visualise scenarios, solve complicated problems, present powerful ideas, and develop effective solutions. As per the current trends, the advanced techniques like Remote Sensing and Global Positioning Systems (GPS), if integrated with Geographic Information Systems, can provide authentic and accurate geo-spatial information on earth surface features and processes involved. The Geoinformatics technology is most relevant where decisions are to be taken on issues like, natural resources assessment, surveying, monitoring and more importantly protection of natural environment including disaster reduction and mitigation. There is a growing need for professionals in the field of Geoinformation technology, who can prepare, maintain and update geographic databases, and develop new Geoinformatics tools. There is growing awareness in government and non-government sector on generation and use of such database.

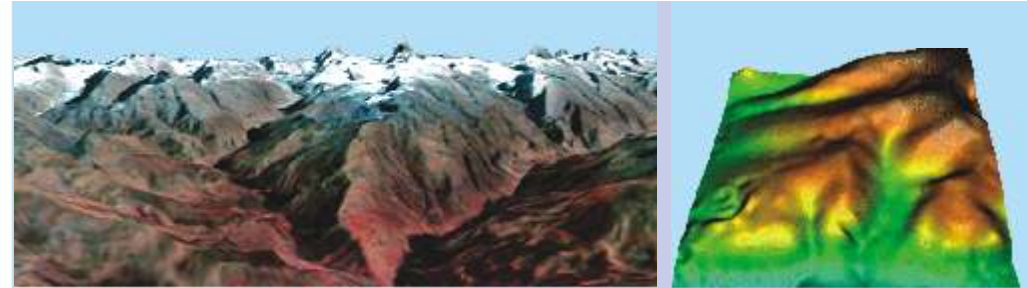
MEDIUM OF INSTRUCTION

English

OBJECTIVE OF THE COURSE

While the progress on the technology is very rapid, it is a fact that full benefits of the technology at grass root level are not recognized by many educated people. The magic word GIS provides a new dimension to solve the variety of problems for higher level planning.

Entrepreneurs, thematic specialist and decision makers have increasing demand over spatial information. Business planning, market analysis, and National Spatial Data Infrastructure are some of the emerging and high potential sectors of GIS application. Surveys in various sectors reveals that everything moves towards GIS. In future GIS may become a part of everyday life like electricity. In the world, GIS is still a 'sleeping lion', it is in this background that we have aimed to spread this technology. This course provides an opportunity for the organizations to train their faculty in GIS for the implementation in the coming years.



TARGET GROUP

This course is primarily meant to train middle level resource managers in application of GIS in various disciplines.

COURSE STRUCTURE

The duration of the course is eight weeks. First three weeks will be devoted to Principles of GIS, another three weeks will be focusing on Principles of Remote Sensing and last two weeks will be dealing with advanced GIS topics and small project.

Principles of GIS (Weeks 1-3)

- Basics of GIS & Databases
- Spatial Database organization, query and analysis
- Digital cartography and output presentation

Principles of Remote Sensing (Week 4-6)

- Basics of Remote Sensing
- Basics of Photogrammetry
- Visual image interpretation and analysis

Advanced GIS topics/Project work (Week 7-8)

Internet GIS
GIS customization

Spatial Decision Support System
Project work

The course is covered in 70 hours of lectures, 40 hours of tutorials and 85 hours of practical which include field visits for ground data collection. Practicals will be conducted on the state of the art computer hardware and software facility under supervision of highly experienced scientists.

ENTRANCE ELIGIBILITY

The candidate should be graduate in Physical Science or Engineering with preferably 2 year professional experience in the field of Remote Sensing with sufficient background in Statistics/Mathematics/Physics or Post Graduate in any discipline of Natural Resources. Candidates sponsored by the State/Central Govt. Departments, Public Sector Undertakings, & Universities are eligible to apply. Self sponsored candidates can also be considered on merit.

Candidates from foreign countries should possess qualification, equivalent to Indian education system, as specified above.