About the Course

The use of Remote Sensing (RS), Geographic Information System (GIS), Global Positioning System (GPS) and associated geo-spatial technologies is increasing rapidly, creating an urgent demand for trained manpower. IIRS utilizes the EDUSAT facility to strengthen institutions by sharing IIRS faculty expertise in running this program to train students at undergraduate / postgraduate level at institutions that have established similar facility. IIRS has successfully conducted 4 such courses till October 2009. The 5th course will tentatively be conducted from the last week of September to December 2010 provided all classroom ends are upgraded to the new “TrainNet” facility.

Partners & Universities

The program is sponsored by NNRMS and is conducted with due help from CEC-UGC and CIET-CEC, New Delhi. Currently we have 48 Indian Universities attending this course. Top 10 universities (participation):

- Pune University
- FRI
- Sagar University
- BIT (Mesra)
- Banasthali
- Gujarat University
- Madurai University
- Panjab University
- Jadavpur University
- CEPT

Curriculum

The course is structured into 5 modules spreading over 60 hours of teaching on:
- Basics of Remote Sensing
- Digital Image Analysis
- Global Positioning System
- Geographical Information System
- Applications in natural resource assessment and management.

The lecture slides are supplemented by practical demonstrations and reading material and requisite open source softwares like ILWIS & QGIS.

IIRS has conducted the course twice in 2007 & one time each in 2008 & 2009 respectively with a participation of more than 3000 students from 50 universities across India.

Elite Faculty

- Dr. George Joseph
- Dr. V. Jayaraman
- Dr. V. K. Dadhwal
- Prof. Dr. M. J. Kraak
- Dr. S. K. Saha
- Mr. P. L. N. Raju
- Dr. P. K. Champati Ray
- Ms. S. Agarwal
- Dr. K. Radhakrishnan
- Dr. P. S. Roy
- Dr. B. Nagarajan
- Dr. R. Nagaraja
- Dr. S. P. S. Kushwaha
- Prof. R. C. Lakhera
- Dr. M. Mitra
- Dr. S. P. Aggarwal

EDUSAT Satellite

EDUSAT is the first Indian satellite built exclusively for serving the educational sector and was launched successfully by GSLV-F01 on 20-9-2004. It is mainly intended to meet the demand for an interactive satellite based distance education system for the country. It strongly reflects India’s commitment to use space technology for national development, especially for the development of the population in remote and rural locations. The 1950 kg EDUSAT was launched from Satish Dhawan Space Centre (SDSC-SHAR) Sriharikota, into a Geosynchronous Transfer Orbit (GTO) by ISRO’s Geosynchronous Satellite Launch Vehicle (GSLV). The satellite is co-located with KALPANA-1 and INSAT-3C satellites at 74 deg East longitude. EDUSAT carries 5 Ku-band transponders providing spot beams, one Ku-band transponder providing a national beam and six Extended C-band transponders with national coverage beam. INSAT-4CR will be used as a standby facility in case of any problems with the EDUSAT satellite.
About IIRS

The Indian Institute of Remote Sensing (IIRS) under the aegis of National Remote Sensing Centre (NRSC), Department of Space, Government of India, established in 1966, is the premier training and education institute dealing with Remote Sensing, Geo-Information Science & GPS Technology and their Applications. IIRS endeavour has been to bring thematic experts from user community including academic institutions and train them in technology & applications at Postgraduate level with the overall goal of ‘technology transfer’. Institute has gained rich experience over the last 44 years in capacity building and implemented many innovative programs tuned to the different needs of various target groups, EDUSAT based training is an outreach Distance Learning Program exclusively launched for university students.

Workshop

In 2007, 2009 and 2010, three workshops have been conducted to gather feedback from participating universities and thereby conduct the future courses with improvements.

EDUSAT based Distance Learning Program on “Basics of RS, GIS & GPS” 5th Course

(Last week of Sept.– Dec. 2010)

Under the aegis of National Natural Resource Management System (NNRMS)

Organised By

Indian Institute of Remote Sensing, (National Remote Sensing Centre) Dehradun

www.iirs-nrsc.gov.in

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