About Geography Department

The Geography Department, D.S.B. Campus (K.U.) Nainital is conducting short term course program. The Geography Department is one of the oldest Department in the region which was establishment by the Department of Higher Education, Government of Uttar Pradesh under the Agra University in DSB College on August 19, 1951. The Department offers under graduate, post graduate teaching and Ph.D. Degree in Geography. The Department has evolved many new courses, which have been widely acclaimed as the frontiers in Geography. Geo-informatics (RS & GIS), disaster Risk Management, Climate Change, Environmental Geography, Natural Resource Management etc. are some of the specializations available in the Department. The Department is well equipped with GIS laboratory, Internet facilities for Student and staff, one seminar room with ICT facility. The Department has a subscription of 10 Research Journals (Print) and 64 on line Research Journals.

Now the Department is under Kumaun University Nainital from December, 1973. Our vision is “be a change maker” and our mission is “Impact knowledge with skill development” because we believe in “Earth is changing and so we are”.

About IIRS

Indian Institute of Remote Sensing (IIRS) under Indian Space Research Organization (ISRO), Department of Space, Govt. of India is a premier Training and Educational Institute set up for developing trained professionals in the field of Remote Sensing, Geoinformatics and GPS Technology for Natural Resources, Environmental and Disaster Management. Formerly known as Indian Photo-interpretation institute (IPI). The Institute has enhanced its capability and evolved many training & education programmes that are tuned to meet the requirements of various target groups, ranging from fresh graduates to policy makers including academia.

IIRS-Outreach Programme

IIRS Outreach Programme is Popular across India. So far, 20 Programmes have been conducted benefiting above 30,000 participants. IIRS also conducts e-learning Programme (http://elearning.iirs.gov.in) on Remote Sensing and Geoinformation Science. The IIRS Outreach Programme, which started in 2007 with 12 universities/institutes, has now grown substantially. Currently, 410 Universities/institutes spread across India covering 29 states and 02 union territories are networked with IIRS. Such as programme will be conduct regularly time to time through IIRS.

According our theme we have started been an innovative programme from 22nd August, 2016. Geography Department/University joined the first time for this programme with IIRS-Edusat. Kumaun University Nainital has been signed MOUs with IIRS (Indian Institute of Remote Sensing) earlier. ISRO sponsored IIRS-EDUSAT outreach programme is an important opportunity for us. This program will give us a new direction to our study, teaching & learning prospects, as well as a new dimension in our education system. The Certificate Courses will be helpful to aptitude development of skill for Students, faculty and all Staff members of our institutes and our society also.

Online Registration for Students for course: Link Below

http://elearning.iirs.gov.in/edusat_lms/student_registration.php
About the Course:

The use of Remote Sensing, Geographical Information System, Global Navigation Satellite System and associated geospatial technologies is increasing rapidly, creating an urgent demand for trained manpower. IIRS utilizes the Ku-Band facility of INSAT-4CR, an ISRO satellite and Internet, for conducting Distance Learning Programmes of the Indian Universities. The target group includes student at Undergraduate/Postgraduate level and Faculty/researchers at different universities/institutions. Under its Outreach Programme, IIRS has established its own Teaching and Studio and up linking facility in the campus under national beam coverage of ISRO satellites, connecting numerous classroom end users, internet bandwidth is also used as an alternative option. This programme can be receive live using A-VIEW e-learning tool developed by Amrita University in internet environment with login permission.

Curriculum:

The Course is divided into 4 Modules:

- Remote Sensing and Digital Image Processing
- Global Navigation Satellite System
- Geographical Information System
- RS and GIS Application

The Topics include:

- Basic Principles of Remote Sensing, Earth observation
- Sensors and Platforms, Spectral Signature of different land cover features, image interpretation.
- Thermal & Microwave Remote Sensing
- Digital Image Processing: Basic Concepts of Rectification, Enhancement, Classification and Accuracy assessment techniques
- Introduction to GPS and GNSS, receivers, processing methods, errors and accuracy
- GIS, Data Bases, Topology, Spatial analysis and open Source software’s
- RS & GIS Applications: Agriculture and Soil, Forestry and Ecology, Geoscience and Geo-hazards, Marine and Atmospheric Science, Urban and Regional Studies and Water Resources

Course study materials like lecture pdf, lecture video, lecture notes, open source software, practical data & handouts of practical lecture etc. will be made available through IIRS ftp site and lecture videos are uploaded in You Tube Channel (http://www.youtube.com/user/edusat2004)

Who can participate?

- Student of Undergraduate course/Postgraduate course and Research Scholar (Any Year).
- Technical/Scientific staff of central/State Govt. Ministries/Departments.
- Faculty/Researchers at University/Institutions are also eligible to participate in this Course.

Applications of participants have to be duly sponsored by Kumaun University Nainital and forwarded through coordinator from the Geography Department. On High speed National
Knowledge Network (NKN) can also participate using A-VIEW software at the Geography Department.

**Course Registration:**
- Online registration is open through URL: http://iirs.gov.in/Edusat-News/
- The online registration is mandatory but a hard copy of the application must be submitted to Coordinator.
- There is no registration fee

*Online Registration for Students for course: Link Below*

http://elearning.iirs.gov.in/edusat_lms/student_registration.php

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**Award of Certificate:**
- Based on 70% attendance
- Must secure minimum 40% marks in all qualifying online examinations.
- Feedback

**Sponsored & Technical Support:**
The programme is sponsored by National Natural Resources Management system-standing committee on Training and Education (SC-T), Indian Space Research Organization, Development of Space, Government of India and is conducted due technical help from satellite Communications & Navigation Programme (SCNP), ISRO; Development and Educational Communication Unit (DECU), ISRO and A-VIEW, Amrita university, National mission on Education through Information and Communication Technology. All facilities we get through IIRS, Dehradun. Moreover, the Geography Department get help of NKN through Library and Dr. Yugal Joshi (senior Scientist, Information) and Dr. Suchetan Sah support us time to time. We have to must be independent with NKN (National Server) connection in further.

**Programme Reception & Practical lab work at Geography Department:**

**Hardware:**
- High end Computer
- Good Quality Camera
- Headphone with Camera
- Wall Speakers
- Large Display Screen through Projector
Software and Internet:
- Desktop based A-VIEW software
- Web based-https://live.aview.in
- National Knowledge Network (NKN)

Web Browser Based:
- URL-http://live.iirs.gov.in
- User registration and activation through email
- Participate through live two way casting with interactive live class

RS & GIS Lab:
- Practical lab work related exercise
- Digital image processing & interpretation
- Handling of open software’s and other licensed software’s
- Creation of all geographical Map’s
- To Operate GPS receiver

For all infrastructural and moral support, credit goes to Prof. R.K. Pandey (Head of the Geography Department), Honorable Vice Chancellor Prof. H.S. Dhami and Prof. D.C. Pandey (Registrar). It is very appreciable contribution for to all of us.

Online Registration of Students for all courses : Link Below
http://elearning.iirs.gov.in/edusat_lms/student_registration.php

Contact to Coordinator:

P.C. Chanyal
(Assistant Professor)
D.S.B. Campus
Kumaun University, Nainital
Uttarakhand, India-263 001
Contact No. 09690659365
Email: edusat.geogkuntl@gmail.com
## IIRS Outreach Programme- Annual Course Calendar 2018
### Tentative Time Slot Date of online Registration Duration Course

<table>
<thead>
<tr>
<th>S. No</th>
<th>Course Name</th>
<th>Tentative Time Slot</th>
<th>Date of online Registration</th>
<th>Duration</th>
<th>Course Director</th>
<th>Course Coordinator</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Hyperspectral Remote Sensing and its Applications</td>
<td>February 19 - March 14, 2018</td>
<td>January 18, 2018</td>
<td>3 Weeks</td>
<td>Dr. Anil Kumar</td>
<td>Mr. Vinay Kumar</td>
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<tr>
<td>2</td>
<td>Geoinformatics for forest fire management</td>
<td>April 02-06, 2018</td>
<td>March 01, 2018</td>
<td>1 Week</td>
<td>Dr. S. K.Srivastav</td>
<td>Dr. Arijit Roy</td>
</tr>
<tr>
<td>3</td>
<td>RS &amp; GIS applications in Water Resources</td>
<td>April 16-27, 2018</td>
<td>April 15, 2018</td>
<td>2 Week</td>
<td>Dr. S.P.Agarwal</td>
<td>Dr. Vaibhav Garg</td>
</tr>
<tr>
<td>4</td>
<td>Geospatial Modeling for Watershed Management</td>
<td>May 01-05, 2018</td>
<td>April 30, 2018</td>
<td>1 Week</td>
<td>Dr. Suresh Kumar</td>
<td>Mr. Justin George</td>
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<tr>
<td>5</td>
<td>Advanced Image Analysis</td>
<td>June 04-15, 2018</td>
<td>May 03, 2018</td>
<td>2 Weeks</td>
<td>Dr. Harish Karnatak</td>
<td>Dr. Poonam S. Tiwari</td>
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<tr>
<td>6</td>
<td>Geospatial Modeling and Applications for Urban and Regional Areas</td>
<td>July 09-20, 2018</td>
<td>June 08, 2018</td>
<td>2 Weeks</td>
<td>Dr. Pramod Kumar</td>
<td>Dr. Sandeep Maithani</td>
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<td>7</td>
<td>Advanced Geospatial Modelling tools and techniques</td>
<td>July 30- August 03, 2018</td>
<td>June 29, 2018</td>
<td>1 week</td>
<td>Dr. Sameer Saran</td>
<td>Mr. A.K.Jha</td>
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<td>8</td>
<td>Remote Sensing and Digital Image Analysis</td>
<td>August 20 - September 14, 2018</td>
<td>July 19, 2018</td>
<td>4 Weeks</td>
<td>Dr. S.K. Srivastav</td>
<td>Mrs Minakshi Kumar</td>
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<td>9</td>
<td>Global Navigation Satellite System and Geographical Information System</td>
<td>September 17- October 26, 2018</td>
<td>August 16, 2018</td>
<td>6 Weeks</td>
<td>Dr. S.K. Srivastav</td>
<td>Mr. Ashutosh Bharadwaj and Mr. Prasun Gupta</td>
</tr>
<tr>
<td>10</td>
<td>RS &amp; GIS Applications</td>
<td>October 29 - November 16, 2018</td>
<td>September 28, 2018</td>
<td>3 Weeks</td>
<td>Dr. S.K. Srivastav</td>
<td>Dr. Arijit Roy</td>
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<tr>
<td>12</td>
<td>Remote Sensing in Crop Management / Agro-meteorology</td>
<td>December 03-07, 2018</td>
<td>November 02, 2018</td>
<td>1 Week</td>
<td>Dr. N.R.Patel</td>
<td>Mr. Abhishek Dhanodia</td>
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</table>

### One day online training workshop- 2018

<table>
<thead>
<tr>
<th>S. No</th>
<th>Workshop Title</th>
<th>Tentative Time Slot</th>
<th>Duration</th>
<th>Focal Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Hydrometrological Disaster Management</td>
<td>April, 2018</td>
<td>1 Day</td>
<td>Dr. Praveen Thakur</td>
</tr>
<tr>
<td>2</td>
<td>Geo Spatial Technologies and Sendai framework for Disaster Risk Reduction</td>
<td>June, 2018</td>
<td>1 Day</td>
<td>Dr. C.M.Bhatt</td>
</tr>
<tr>
<td>3</td>
<td>RS&amp;GIS for preparation of Forest Working Plan</td>
<td>August, 2018</td>
<td>1 Day</td>
<td>Dr. Arijit Roy</td>
</tr>
<tr>
<td>4</td>
<td>Crowd Sourcing and Participatory GIS</td>
<td>November, 2018</td>
<td>1 Day</td>
<td>Dr. Harish C. Karnatak</td>
</tr>
</tbody>
</table>
*Module wise examination as per scheduled in S.No. 1 to 12.

Coordinator:

P.C. Chanyal
(Assistant Professor)
D.S.B. Campus
Kumaun University, Nainital
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Email: edusat.geogkuntl@gmail.com

Online Registration of Students for all courses: Link Below

Copy and paste in your browser
http://elearning.iirs.gov.in/edusat_lms/student_registration.php