Government of India
Department of Space
Indian Institute of Remote Sensing
4, Kalidas Road, P.B. No. 135
Dehradun - 248 001, India
Tel: +91-135-2744583
Fax: +91-135-2741987
e-mail: prakash@iirs.gov.in
director@iirs.gov.in

Dr. Prakash Chauhan
निदेशक
Director

Sub: Announcement of 41st IIRS Outreach Program on “Hyperspectral remote sensing and its Applications” commencing from January 21, 2019.

The Indian Space Research Organisation (ISRO) has a vibrant Earth Observation (EO) programme since last 50 years with launch of several satellite missions. The Indian Remote Sensing Satellite (IRS) series of satellites provide space based information for monitoring and management of natural resources and Disaster Management Support. The Indian Institute of Remote Sensing (IIRS) is a premier Institute under ISRO engaged in training, education and capacity building on use of geospatial technology for natural resources monitoring and disaster management since last five decades. The Institute has so far conducted 40 Satellite and Internet based Outreach Programmes, benefitting more than 89,000 participants from 885 Indian universities/ institutions/user Departments/user ministries in India. To promote the use of Geospatial technology, IIRS announces the 41st IIRS Outreach Program on “Hyperspectral remote sensing and its Applications” commencing from January 21, 2019. The course is targeted to working professionals and students and will provide a unique opportunity to the learners to enhance their knowledge by attending the course at their respective working places.

Hyperspectral remote sensing deals with measurements in a large number of narrow spectral bands over a contiguous spectral range. Because of its ability to detect narrow absorption features hyperspectral data are related to specific vegetation physio-chemical characteristics, soil physical and chemical properties, mineral composition and snow characteristics, mapping tree species, recognizing invasive plants, and identifying key geologic features.
However, because of presence of a large number of bands, hyperspectral data needs different analysis approach including feature reduction, feature selection, removal of noise, detection of absorption features, advance classification techniques. This course will make the participants aware about hyperspectral remote sensing, hyperspectral data processing and its applications. This course will have eleven sessions. First to sixth sessions will mainly be focused on topics related to hyperspectral remote sensing, ground spectro-radiometer and processing techniques; while seventh to eleventh sessions will focus on application of hyperspectral data in five application areas.

It is a unique opportunity for participants to learn directly from their place of working by devoting an hour and a half each day. The course can be attended with no cost to the participants. Programme can be receive live through internet using freely available software from IIRS and also through live streaming from IIRS website and YouTube. This Programme is sponsored by NNRMS, Department of space, and Government of India for capacity building. The participants who successfully complete the course will be awarded a certificate from IIRS, ISRO. The programme is scheduled during 1600 Hrs.-1730 Hrs. every day for a week. A copy of the announcement brochure of this course is forwarded herewith for your kind perusal and for circulation in your university/institute/Organisation. The course is open to UG & PG students/researchers/scientific/technical staff and interested individuals. We need your support for wide publicity and maximum participation from your university/ institute/Organisation.

In case you need any further information about the programme, please feel free to contact:

- **Dr. Anil Kumar**, Course Director, 41st IIRS Outreach Programme  
  Ph: 0135-2524114 (Office), email: anil@iirs.gov.in
- **Mr. Vinay Kumar**, Course Coordinator, 41st IIRS Outreach Programme  
  Ph: 0135-2524115 (Office), email: vinaykumar@iirs.gov.in
- **Dr. Harish Karnatak**, Head, Geoweb Services, IT & Distance Learning Department  
  Ph: 0135-2524332 (Office), email: harish@iirs.gov.in
- **Dr. Poonam S. Tiwari**, Programme Coordinator, IIRS Outreach Programme  
  Ph: 0135-2524334 (Office), email: poonam@iirs.gov.in
- **EDUSAT Studio/Control Room [Shri Janardan Vishwakarma & Shri Ashok Ghidial]**  
  Ph: 0135-2524130, email: dlpi@iirs.gov.in

You may also visit IIRS website http://www.iirs.gov.in/Edusat-News for further details.

With regards and best wishes,

(Praakash Chauhan)

Encl: Course Schedule