

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

61st IIRS Outreach Programme

on

“Satellite Photogrammetry and its Applications”

By Dr. Poonam S. Tiwari, Dr. Hina Pande, Dr. Ashutosh Bhardwaj, Dr. Anil Kumar, Scientists, Indian Institute of Remote Sensing, Dehradun

June 29- July 3, 2020

The Department of Electronics and Communication Engineering has organized a 5-Day Outreach Programme conducted by Indian Institute of Remote Sensing, Dehradun during June 29 – July 3, 2020. The target audience are the faculty and students of various disciplines of Sree Vidyanikethan Educational Trust, Tirupati.

In recent years it has been possible to collect vast quantities of 3 D data using new technology, and to interpret and visualize the data in new ways The third dimension has become an integral part of geospatial information 3 D technology is finding huge utility in resource monitoring, facilities management, urban planning defense and internal security It has not only revolutionized the surveying and mapping applications but it has emerged as a powerful tool for planning, monitoring and evaluation of developmental activities, informed decision making in governance A few potential users of the technique are administrators, decision makers, engineers, city planners, natural resource scientists. This outreach programme covered the following topics:

- Photogrammetric Concepts
- Satellite Photogrammetry
- Basics of GPS
- DEM and its derivatives
- Orthoimage generation

Finally, a group panel discussion was conducted on 03-07-2020 with all online users and expert panel who are experienced Scientists from Indian Institute of Remote Sensing, Dehradun. A total of 82 members from different disciplines have participated in this programme.

Dr. V. V. Satyanarayana Tallapragada, Associate Professor coordinated this event under the guidance of Dr. P. V. Ramana, Professor and Head, Department of Electronics and Communication Engineering.


Convener

61st IIRS Outreach Programme



(image credit: GAF/Euromap)



(image credit: IIRS)

Satellite Photogrammetry and its Applications

June 29- July 3, 2020



Organised by

Indian Institute of Remote Sensing
Indian Space Research Organisation
Department of Space, Govt. of India
Dehradun

www.iirs.gov.in

About IIRS

Indian Institute of Remote Sensing (IIRS) under Indian Space Research Organisation (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 GNSS Technology and its applications in natural resources monitoring, environmental and disaster management. Formerly known as Indian Photo-interpretation Institute (IPI), founded in 1966, the Institute boasts to be the first of its kind in entire South-East Asia. While nurturing its primary endeavour to build capacity among the user community by training mid-career professionals, the Institute has enhanced its capability and evolved many training and education programmes that are tuned to meet the requirements of various target groups, ranging from fresh graduates to policy makers including academia.

IIRS also conducts e-learning programme on Remote Sensing and Geoinformation Science (<http://elearning.iirs.gov.in>).

Contact Details

Dr. Anil Kumar
Course Director and Head, PRSD
Tel: 0135-2524186
Email: anil@iirs.gov.in

Dr. Hina Pande
Course Coordinator
Tel: 0135-2524116
Email: hina@iirs.gov.in

Dr. Poonam S Tiwari
Programme Coordinator
IIRS Outreach Programme
Tel: 0135-2524334
Email: Poonam@iirs.gov.in

IIRS DLP Team
Janardan Vishwakarma
and

Ashok Ghildiyal
dlp@iirs.gov.in
•Tel: 0135-2524130

Indian Institute of Remote Sensing,
Indian Space Research Organisation
Department of Space, Govt. of India,
4-Kalidas Road, Dehradun
Email: dlp@iirs.gov.in

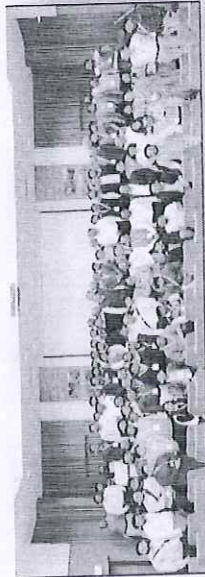
IIRS Outreach Programme

The IIRS outreach programme, which started in 2007 with 12 universities/ institutions has now grown substantially to 1100. The beneficiaries of the programme may include:

- Central/State/Private Universities & Academic Institutions
- Central & State Government Organisations / Departments
- Research Institutes
- Geospatial Industries
- NGOs

Feedback Mechanism

IIRS has conducted workshops and sessions during IIRS User Interaction Meet to take feedback from participating institutions to improve the quality of future courses.



IIRS Outreach programme feedback session during IIRS Academia Meet (IAM)-2020

Awards

IIRS has received national awards for excellence in training for outreach and e-learning programme during 1st National Symposium on Excellence in Training conducted during April 11-12, 2015 in New Delhi by Department of Personnel & Training (DoPT), Govt. of India in collaboration with United Nations Development Programme (UNDP).





Department of Space, Government of India
Indian Space Research Organisation (ISRO)
Indian Institute of Remote Sensing, Dehradun

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Lecture Schedule

| Date | Time | Topic | Faculty |
|------------|------------------|--|--------------------------|
| 29/06/2020 | 1600 to 1730 Hrs | Introducing Photogrammetric Concepts | Dr. Poonam S. Tiwari |
| 30/06/2020 | 1600 to 1730 Hrs | Concepts of Stereophotogrammetry | Dr. Poonam S. Tiwari |
| 01/07/2020 | 1600 to 1730 Hrs | Concepts of Satellite Photogrammetry | Dr. Hina Pande |
| 02/07/2020 | 1600 to 1730 Hrs | Introduction to Global Positioning System | Dr. Ashutosh Bhardwaj |
| 03/07/2020 | 1600 to 1730 Hrs | Photogrammetric products from satellite stereo images (DEM and derivatives & Orthoimage) | Dr. Anil Kumar |