

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

65th IIRS Outreach Programme

on

“Remote Sensing & Digital Image Analysis”

By Dr. Prakash Chauhan, Ms. Manu Mehta, Mr. Vinay Kumar, Dr. Hina Pande, Ms. Minakshi Kumar, Dr. Poonam S. Tiwari, Dr. Yogesh Kant, Ms. Supriya sharma, Mr. Shashi Kumar, Ashish Joshi, Mrs. Shefali Agrawal, Scientists, Indian Institute of Remote Sensing, Dehradun

17 August-11 September, 2020

The Department of Electronics and Communication Engineering has organized a 17-Day Outreach Programme conducted by Indian Institute of Remote Sensing, Dehradun during 17 August – 11 September, 2020. The target audience are the faculty and students of various disciplines of Sree Vidyanikethan Educational Trust, Tirupati.

Remote sensing has become imperative and is the current area of research. This has made researchers to develop new techniques that exploit the problems that are being faced in image analysis to the development of new software for this particular purpose. This outreach programme covered the following topics:

- Basic Principles of Remote Sensing, Earth Observation Sensors and Platforms
- Spectral Signatures of Different Land cover Features and Visual Image interpretation
- Digital Image Processing: Basic Concepts Rectification and Registration, Enhancement techniques
- RS and Image Interpretation Practical
- Image Classification Techniques and Accuracy Assessment
- Thermal Remote Sensing, Digital Change Detection,
- GEE Application Programming Interface: Introduction and Case Studies Demo,
- Hyperspectral Remote Sensing, Demonstration: Image Processing Software
- Basics of SAR Remote Sensing
- Basics of SAR Data Processing
- Basics of LIDAR Remote Sensing
- Basics of UAV Remote Sensing
- Image Processing Hands-on practice.

Finally, a hands-on training session was conducted on the last three days of the programme for all participants. A total of 7 members from different disciplines have participated in this programme.

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

Course Name: Remote Sensing & Digital Image Analysis
Course Coordinator: Mrs. Minakshi Kumar

17 August-11 September

Date	Day	Time	Topic	Speaker
17/08/2020	Monday	1600-1730 hrs	Course Inauguration and Introductory Lecture , Indian Space Programme	Dr. Prakash Chauhan
18/08/2020	Tuesday	1600-1700 hrs	Basic Principles of Remote Sensing	Ms. Manu Mehta
		1700-1730 hrs	Interactive Session	
19/08/2020	Wednesday	1600-1700 hrs	Earth Observation Sensors and Platforms	Mr. Vinay Kumar
		1700-1730 hrs	Interactive Session	
24/08/2020	Monday	1500-1545 hrs	Spectral Signatures of Different Land cover Features and Visual Image interpretation	Dr. Hina Pande
		1545-1600 hrs	Interactive Session	
24/08/2020	Monday	1605-1700 hrs	Digital Image Processing: Basic Concepts Rectification and Registration	Ms. Minakshi Kumar
		1700-1730 hrs	Interactive Session	
25/08/2020	Tuesday	1500-1545 hrs	Enhancement techniques Image	Dr. Poonam S. Tiwari
		1545-1600 hrs	Interactive Session	
25/08/2020	Tuesday	Offline Session	RS and Image Interpretation Practical	Self-Practice by participants / Assignment
26/08/2020	Wednesday	1500-1545 hrs	Image Classification Techniques and Accuracy Assessment Part 1	Dr. Poonam S. Tiwari
		1545-1600 hrs	Interactive Session	
26/08/2020	Wednesday	1605-1700 hrs	Thermal Remote Sensing	Dr. Yogesh Kant
		1700-1730 hrs		
27/08/2020	Thursday	1600-1700 hrs	Image Classification Techniques and Accuracy Assessment Part 2	Dr. Poonam S. Tiwari
		1700-1730 hrs	Interactive Session	
28/08/2020	Friday	1600-1700 hrs	Digital Change Detection	Ms. Minakshi Kumar
		1700-1730 hrs	Interactive Session	
31/08/2020	Monday		Onam Festival	
01/09/2020	Tuesday	1600-1730 Hrs	GEE Application Programming Interface: Introduction and Case Studies Demo	Ms. Supriya sharma
02/09/2020	Wednesday	1600-1700 hrs	Hyperspectral Remote Sensing	Mr. Vinay Kumar
		1700-1730 hrs	Interactive Session	
03/09/2020	Thursday	1600-1700 hrs	Demonstration: Image Processing Software	Ms. Minakshi Kumar
		1700-1730 hrs		

Date	Day	Time	Topic	Speaker
			Interactive Session	
04/09/2020	Friday	1600-1700 hrs	Basics of SAR Remote Sensing	Mr. Shashi Kumar
		1700-1730 hrs	Interactive Session	
07/09/2020	Monday	1600-1700 hrs	Basics of SAR Data Processing	Ashish Joshi
		1700-1730 hrs	Interactive Session	
08/09/2020	Tuesday	1600-1700 hrs	Basics of LIDAR Remote Sensing	Dr. Hina Pande
		1700-1730 hrs	Interactive Session	
04/09/2020 07/09/2020 08/09/2020	Friday , Monday & Tuesday	Offline Session	Image Processing Hands-on practice	Self-Practice by participants / Assignment
10/09/2020	Thursday	1600-1700 hrs	Basics of UAV Remote Sensing	Mrs. Shefali Agrawal
		1700-1730 hrs	Interactive Session	
11/09/2020	Friday	1600-1730 hrs	Panel Discussion/Query Session	All the faculty
28/09/2020	Monday Tuesday & Wednesday	9:30 to 1500 Hs	Examination Examination Website: https://elearning.iirs.gov.in/	As per allotted Slot Details and procedure will be uploaded on below link: https://www.iirs.gov.in/ EDUSAT-News



Dr. V. V. Satyanarayana T

65- IIRS Outreach Programme on Remote Sensing and Digital Image Analysis

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Registration Number	Name	Total Sessions	No. of sessions attended	%ge of Attendance	Eligibility for Examination/Certificate
2020650224095	MR. KAKUNURI GANESH REDDY	18	13	72.22	Yes
2020650228383	MR. N LOKESH	18	13	72.22	Yes
2020650259387	MR. KARUNAKAR RAO PATIKE	18	17	94.44	Yes
2020650266203	MR. SHAIK SAMIULLA BHASHA	18	13	72.22	Yes
2020650330787	MR. KURUBA	18	13	72.22	Yes
2020650333255	MS. NIHITHA AKULURU	18	13	72.22	Yes
2020650336963	MR. HITESH SAKAMURI	18	13	72.22	Yes

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[IIRS e-Learning Brochure \(https://elearning.iirs.gov.in/imgs/elearning_IRS-English_Version2018.pdf\)](https://elearning.iirs.gov.in/imgs/elearning_IRS-English_Version2018.pdf)

[Annual Course Calendar IIRS Distance Learning Programme – 2020 \(https://elearning.iirs.gov.in/imgs/Annual%20Course%20Calendar%202020%20-revised%20\(4\).pdf\)](https://elearning.iirs.gov.in/imgs/Annual%20Course%20Calendar%202020%20-revised%20(4).pdf)

[IIRS Application Form \(https://elearning.iirs.gov.in/imgs/application_form.pdf\)](https://elearning.iirs.gov.in/imgs/application_form.pdf)

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