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PUNJAB REMOTE SENSING CENTRE

(A Govt. of Punjab Enterprise)

PAU Campus, Ludhiana – 141 004, Punjab (India)

PUNSEN:

Dated: 03-01-2019

Subject: Three Weeks Training Programme on “Application of Remote Sensing and GIS”

Remote Sensing and GIS technology has emerged as an effective tool for planning, decision making and monitoring of Natural Resources. Many states in India have successfully adopted this technology in the Government departments.

Punjab Remote Sensing is going to organize a Three Weeks Training Programme on “Applications of Remote Sensing and GIS” for University Faculty/College Teachers and line department officials from January, 28 to February 15, 2018 under NNRMS programme of Indian Space Research Organization (ISRO). This Programme is designed to cover fundamentals and various applications of Space Technology, Geographical Information System (GIS) and Global Positioning System (GPS) mapping and management, along with hands on training on interpretation and digital analysis of satellite images. You are requested to depute one Lecturer/Professor from your college to attend the said course. There are limited seats and these shall be filled on first come-first serve basis. The registration form is attached. Duly filled registration form may please be submitted to this office on or before 22nd January 2019 by post or through email.

Accommodation is not provided. However, if requested for accommodation same may be booked in PAU/Govt. Guest House as may be available and charges if any shall be borne by the participants. Payment of TA and DA to eligible candidates will be made as per the rules of the Government of Punjab.

For Details Please Contact

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Director

Punjab Remote Sensing Centre,



PUNJAB REMOTE SENSING CENTRE

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PAU Campus, Ludhiana – 141 004, Punjab (India)

REGISTRATION FORM

THREE WEEKS TRAINING COURSE ON
APPLICATIONS OF REMOTE SENSING (RS) AND GEOGRAPHIC INFORMATION SYSTEM (GIS)
(January 28-February 15, 2019)

Sponsored By

Indian Space Research Organisation (ISRO)

Organized by

PUNJAB REMOTE SENSING CENTRE (PRSC), PAU Campus, Ludhiana, 141004

Name:

Designation:

Organisation:

Postal Address:

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Email:

Mobile No.:

Accommodation required: Yes/No

If Yes: From To.....

Date and Time of Arrival:

Date and Time of Departure:

Date:

Place:

Signature

Endorsement/ Signature of HOD

TRAINING SCHEDULE FOR THREE WEEKS TRAINING FOR UNIVERSITY FACULTY/LINE DEPARTMENTS OFFICIALS

DATE	9.00 to 10.30 AM	10.30 to 11.00 AM	11.00 AM to 12.00 Noon	12 Noon to 1.00 PM	1.00 to 2.00 PM	2.00 to 5.00 PM (LECTURE/PRACTICALS)
28.1.19	Inaugration, Registration and Introduction about PRSC	TEA	Introduction about Training programme and advantages of technology	INDIAN SPACE PROGRAMME	LUNCH	PRSC Visit
29.1.19	Basics of Remote Sensing- Principles and processes	TEA	LECTURE -DIRECTOR PRSC	Types of Sensors / Satellite Data, Types of Resolution	LUNCH	Map Reading , Map scale and Toposheets
30.1.19	Elements of Photogrammetry	TEA	Introduction to Projection Systems	Aerial photography and scale measurements using Aerial Photographs	LUNCH	Aerial Photographs, Map scale, Toposheets, Preparation of Base map
31.1.19	Introduction to GPS and its Application	TEA	Hyperspectral data and its applications	Sub-pixel spectral mixing in different spatial and spectral resolutions	LUNCH	Land Form and Physiography using Aerial Photographs and Analog data
1.2.19	Fundamentals of Computer	TEA	Visual Interpretation and Ground Truth Collection	Digital image processing (DIP)	LUNCH	Remote Sensing Data Products Analog - Prints of individual bands and at different scale, False Color Composite
SATURDAY						
SUNDAY						
4. 2.19	Introduction and Principle of GIS, tools	TEA	GIS-Capabilities and Advantages	GIS data analysis (Raster/Vector)	LUNCH	Remote Sensing Data Products Digital - CDs/DVDs/HDD (Digital Media), Band Combinations Aerial Photographs
5. 2.19	Application of Remote sensing in Land use /Land Cover Mapping	TEA	Application of Remote sensing in Agriculture	Application of Remote Sensing in watershed management	LUNCH	Land Use / Land Cover mapping using Aerial Photographs and Analog data

6. 2.19	Application of Remote Sensing in forest management	TEA	Application of Remote sensing for urban and infrastructure planning	Application of Remote Sensing in Environment and Ecology	LUNCH	Land Use / Land Cover mapping using Aerial Photographs and Analog data
7. 2.19	Application of Remote sensing and GIS for Disaster Management	TEA	Application of Remote Sensing in soil survey and land evaluation Studies	Application of Remote Sensing in geology and geomorphology	LUNCH	Digital Image Processing- Loading of data, Display, Individual band study
8. 2.19	Use of Global Positioning System (GPS) and ground truth verification	TEA	Use of Global Positioning System (GPS) and ground truth verification- Field visit	Use of Global Positioning System (GPS) and ground truth verification- - Field visit	LUNCH	Use of Global Positioning System (GPS) and ground truth verification- Field visit
SATURDAY						
SUNDAY						
11.2.19	Digital Image Processing- Loading of data, Display, Individual band study	TEA	Digital Image Processing-Enhancements, Preparation of FCC	Digital Image Processing Exercises	LUNCH	Digital Image Processing Exercises
12. 2.19	GIS Exercises (Input)-Scanning, Georeferencing of Scanned images	TEA	GIS Exercises (Input)-Scanning, Georeferencing of Scanned images	GIS Exercises (Input)-Digitization, Interpretation, Editing	LUNCH	GIS Exercises (Input)-Digitization, Interpretation, Editing
13. 2.19	GIS Exercises (Input)-Digitization,Editing and Topology building, Attribute attachment	TEA	GIS Exercises (Input)-Digitization,Editing and Topology building, Attribute attachment	GIS Exercises (Input)-Digitization,Editing and Topology building, Attribute attachment	LUNCH	GIS Exercises- Finalization of Map using Ground truth data
14. 2.19	Integration of Spatial and Non Spatial data	TEA	GIS Exercises- Finalization of Map using Ground truth data	GIS Exercises- Map Composition, Overlay of Maps		GIS Exercises- Map Composition, Overlay of Maps
15. 2.19	Demonstration of satellite data on Bhuvan Portal		Exercise on Bhuvan Portal	Discussion and Feedback	LUNCH	Valedictory Function