

RESOURCE PERSONS

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Centre for Earth and Space Sciences University of Hyderabad

A Training Workshop On

Microwave Remote Sensing
Data Processing
10 – 14, February 2014

REGISTRATION FORM

Name : _____ Age _____

Designation : _____

Organization : _____

Mailing Address : _____

Telephone: _____

Mobile: _____

Email: _____

Place: _____

Date: _____ Signature _____

I am recommending the registration of the above person
for attending the Workshop **on Microwave Remote
Sensing Data Processing.**

Signature with seal
Head of the forwarding Institute

Please mail the application to:

Dr V. Chakravarthi, Director, UCES

vc@uhyd.ernet.in

A Training Workshop On

Microwave Remote Sensing Data Processing

10 - 14 February 2014

(Supported by Amigo Optima)



Coordinators

Dr. V. Chakravarthi

Dr. P. S. Roy

Mr. Srikanth Kanaparth



Organized by

**Centre for Earth and Space Sciences
University of Hyderabad**

P.O. Central University, Gachibowli
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The main objective of this 5 days course is to enhance the knowledge of the participants towards a better understanding and utilization for various applications. This training is essentially for developing capacity building in the use of Microwave data and its applications in various application fields. The training could help the participants to take up R&D and utilization programmes in fields like Polarimetry, Interferometry, DEM generation, Land use and land cover and Microwave applications.

Course Content:

✚ Introduction to SAR

✚ SAR Processing

✚ Interferometry SAR Processing

- ✓ Baseline estimation
- ✓ Interferogram generation
- ✓ Adaptive filtering of interferograms
- ✓ Phase unwrapping
- ✓ Precision estimation of Interferometry baselines from ground control points
- ✓ Generation of topographic height

✚ Differential Interferogram & Geocoding

- ✓ Terrain Corrected Geocoding
- ✓ Generation of an initial lookup table , Refinement of lookup table (manual or automatic via simulated SAR image)
- ✓ Resampling of SAR image to map coordinates
- ✓ Co-registration

✚ Application Tool

- ✓ Filtering and Parameter Estimation
- ✓ Test-Area Analysis
- ✓ Classification Tools
- ✓ Mathematical and Auxiliary Tools
- ✓ Visualization Tools

- ✓ Retrieval Algorithms
- ✓ Mosaicking
- ✓ Polarimetry Tools

- Applications of Imaging SAR: Geology, Snow Glaciers, Vegetation, Agriculture, Subsidence & DEM

The sessions will be organized as lectures in the forenoon and hands on in the Afternoon.

WHO CAN ATTEND

The program is open to all the Researchers, teachers of AICTE approved engineering colleges and persons work in Industry / R&D Organizations. Participants are invited to register by sending the duly filled registration form enclosed herewith. Form can be downloaded from our website (www.uohyd.ac.in).

REGISTRATION FEE

No Registration fee.

ACCOMMODATION

The registered participants need to make their arrangement of lodging and boarding.

IMPORTANT NOTES

The number of delegates aimed for the program is **limited to 20-25**. Therefore, the registration is based on the **first come first serve basis**. The participants are encouraged to bring their laptops.

The completed registration form in the prescribed format should reach the Coordinators **on or before 1st Feb, 2014**. **Admissions will be confirmed on Feb. 3, 2014**.

Confirmation by e-mail on first come first serve basis.