The launch of the first Indian active microwave remote sensing satellite, Radar Imaging Satellite RISAT-1, has opened up new vistas for operational utilisation of microwave data for management of natural resources and Disaster management. RISAT-1 is the first indigenously developed Microwave satellite.

RISAT-1 carries a multi-mode C-band (5.35 GHz) Synthetic Aperture Radar (SAR) as the sole payload. It operates at various beam modes having a number of combinations of linear as well as circular polarization, varying swath in the range of 200-600 km and spatial resolution varying between 3 to 50 m depending on the type of mode. Unique applications of radar technology and synergy with optical data have tremendous scope for a better understanding in developing new applications. The RISAT-1 microwave data is useful in the fields of Agriculture, Soils, Forestry, Earth Sciences, Snow, Hydrology, Oceanography and Disaster Applications. Also, RISAT-1 provides unique characteristics of fully polarized & compact polarized data in multi incidence besides being equipped for interferometry.

The main objective of this course is to enhance the knowledge of the participants towards a better understanding of the interaction of microwave with the objects on the Earth's surface when viewed from space platform and utilization for various applications.

**Course Schedule:**
The course is of two weeks duration from May 11 - 22, 2015.

**Course Content:**
The course covers Microwave Remote Sensing Technology & Applications addressing:

- Introduction to SAR Technology
- SAR Signal Processing
- Interferometry
- Advanced Polarimetry

Applications, Case studies and Tutorials in
- Agriculture & Soils
- Forestry
- Earth Sciences
- Snow & Hydrology
- Oceanography
- Disaster Management

**Training Focus:**
The training is essentially for developing capacity building in the use of Microwave data and its applications in various application fields. The course could help the participants to take up R&D and utilization programmes in the emerging area of frontier technologies like Polarimetry, Interferometry and Microwave applications.

**Course Fee:**
The course tuition fee is Rs. 3,300/- for Government, Rs 4,700/- for Private/NGO candidates and Rs. 2,800/- for Faculty & Research scholars from Academia. The Fee does not include Boarding and Lodging Charges. Accommodation is provided for outstation participants in Guest House - II on twin sharing basis. Canteen facilities can be availed for boarding at nominal price.

**Who can Apply:**
Applications are invited from State Government / Central Government Departments, NGOs, Private Companies and faculty from Academic Institutions who are gearing up to utilise the Active Microwave Remote Sensing data.

Participant should have minimum Masters in Science or Bachelors degree in Engineering. Knowledge in Remote Sensing Applications using optical multispectral data and experience in using Image Processing software is essential.

**How to Apply:**
Please send the duly filled-in application form, with 2 stamp size photographs, sponsorship certificate duly signed by the sponsoring authority with seal, copies of degree certificate, course fee in the form of account payee Draft, drawn in favour of “Pay & Accounts Officer, NRSC” payable at Hyderabad, drawn not before 16th March, 2015. The duly filled-in form along with the above documents should reach Head, T&ED, NRSC, Balanagar, Hyderabad - 500 037, by speed post before 17th April, 2015. Application forms are also available for download at our website [www.nrsc.gov.in](http://www.nrsc.gov.in) under training. Kindly provide the e-mail address, Fax No., Mobile No. The selected candidates will be communicated by e-mail/fax or by post. Right of admission reserved with NRSC.
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