

**Earth Ecosystem Research and Training Division (ERTD)  
VEDAS Research Group (VRG), EPSA/SAC**

**“SAR & Hyperspectral Data Analysis for Forest Applications”**

Date: 30 October -03 November, 2017

**Training and Research in Earth Eco-system (TREES)**

A Five-days training programme was conducted on **“SAR & Hyperspectral Data Analysis for Forest Applications”**. The training programme was attended by 24 participants from 13 institutes / organisations from all over country.



Overall 11 lectures covering various aspects of Satellite based SAR and Hyper Spectral for Forest Applications were delivered. The lectures on remote sensing covered Basic principles of Remote Sensing and its broader Applications, Data products and Basics of Microwave data were delivered. Specific Applications of remote sensing of SAR data for Forest Study, Parameter retrieval of Forest from SAR, Advanced SAR Techniques for Forest Applications were covered.

Besides SAR, lectures on Hyper Spectral Techniques - Its Basic, Applications for Forests, Atmospheric correction DSM retrieval and Forest Fire detection were covered. Three Tutorial / Hands on exercise of Twelve hours on SAR data pre-Processing and Analysis, Hyper-Spectral data processing and Modeling for Forest parameter retrieval. In addition, VSSE Visit and session on demonstration of Portable photosynthesis system, Plant canopy Imager, LASER Hypsometer, DUFF Moisture meter and use of GPS for field data collection utilities were covered.

The participants highly appreciated the course content and its presentation. The feedback received was encouraging, many of participants showed interest to work with SAC/ISRO collaborative projects and students wanted to be part of TREES Research Programme.