



TREES Training on

“Desertification and Land Degradation: Monitoring, Vulnerability Assessment and Combating Plans”

Earth Ecosystem Research and Training Division (ERTD)
VEDAS Research Group (VRG), EPSA, Date: 14-22 March, 2018



- A Nine-days training programme was conducted on **“Desertification and Land Degradation: Monitoring, Vulnerability Assessment and Combating Plans”**.
- The training programme was attended by 35 participants from 17 institutes / universities / organisations from all over country.

Overall 19 lectures considering various aspects of Desertification and Land Degradation, Vulnerability assessment were included. The lectures on remote sensing covering Basic principles of Remote Sensing and its broader Applications, Land degradation concepts, Digital Image Processing, Geographic Information Systems, Advances in Digital Image Processing, were delivered. Specific Applications of remote sensing for crop discrimination, Application of SAR for forestry and Recent trends in Hydrology were covered.

Besides Optical and SAR, lectures on Overview of Soil as resource and relevance to Land degradation, Land Degradation – Monitoring& Assessment, Object based feature extraction, monitoring of wetlands, Land degradation Vulnerability assessment, Action plan for combating Land degradation using RS-GIS were covered.

Lastly regarding action plans for land-water resource development, planning, implementation etc. Were explained. Kuchchh Resource Information System (KRIS) and methods of quality checking of DLD maps were explained.

Six Tutorial / Hands on exercise of Eighteen hours on various topics like Identification of Indicators of Desertification, Image processing and GIS, Land degradation mapping, Semi/Auto extraction of DLD features and combating Land degradation was done. In addition, during field visit to Nal sarover area for different features identification Desertification parameters were shown and use of GPS for field data collection utilities were covered.

Feedback received was encouraging, many of participants showed interest to work with SAC/ISRO collaborative projects and some students wanted to be part of TREES Research initiative Programme.