



## Training programme under TREES initiative on

### *“Cryospheric Applications using Space Based Observations”*

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

October 14-18, 2019



A Five-days training programme was conducted on **“Cryospheric Applications using Space Based Observations”**. The training programme was attended by 25 participants from 12 institutes / organisations from all over country.

Overall 15 lectures covering various aspects of Satellite based cryosphere and modeling were delivered. The lectures on remote sensing covered Basic principles of Remote Sensing and its broader Applications. Image processing, Lecture on VEDAS, and Android App. Utility Demonstration were delivered. Specific Applications of remote sensing for Cryosphere, Himalayan snow cover, Snow pack, Glacier inventory, Monitoring and mass balance, Snow melt runoff estimation, Glacial lakes monitoring, Microwave interactions with snow and Glaciers, Glacier Faces mapping.

Besides Himalayan cryosphere lectures on Remote sensing of Polar cryosphere, Sea Ice, Its Classification and Analysis, Monitoring of Ice Shelves and Sea Ice Thickness.

Seven Tutorial / Hands on exercise of Fifteen hours on Image processing, GIS, Snow cover extraction, Glacier mapping, Snow pack, Continental ice and Sea Ice was also devoted so that participants can appreciate the theoretical aspects 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. Participants received Certificates from Shri Nilesh Desai, Associate Director, SAC.