# 5 Day Training on
Hyperspectral Remote Sensing
(April 25 – 29, 2022)

Brief:

Hyperspectral Remote Sensing or Imaging spectroscopy is the acquisition of hundreds of registered contiguous spectral bands leading to data that offers complete spectral reflectance of the imaged targets. It presents unique opportunities in understanding physical and chemical properties of various terrain features, atmospheric phenomenon and their composition. Characterization of targets directly from image pixels opens numerous opportunities to automatic feature identification, classification, comparison, abundance estimation and unmixing.

The complexity in retrieving information from hyper spectral data demands proper understanding and analysis. The advent of space borne Hyperspectral sensors providing images of Earth's environment has brought new challenges in analyzing, exploring and understanding the Hyperspectral data.
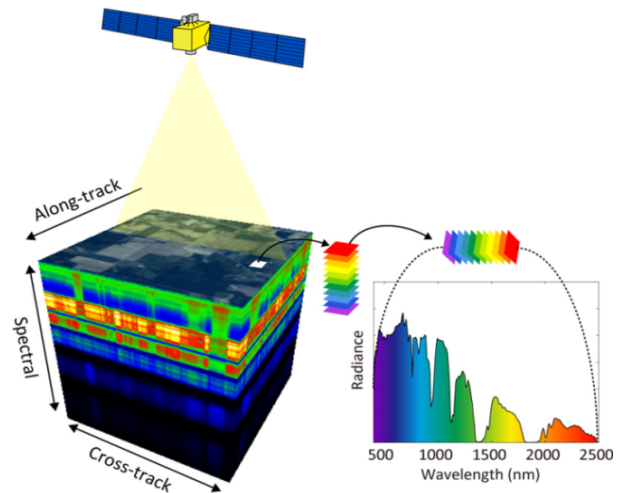
HySI Sensor

The data from Hyperspectral sensors like AVIRIS, HYDICE, HySI, HYMAP and Hyperion has accelerated research and utilization in applications ranging from atmospheric characterization & climate research, snow and ice hydrology, monitoring coastal environment, ecosystem functioning, water studies, mineral exploration, landuse/landcover and vegetation mapping. The potential and numerous applications possible with use of hyperspectral data from space platform is making it preferred choice of data for many scientist and researchers.

The main objective of the training is to impart a broad and working level knowledge of the data, its analysis for natural resource assessment & environment monitoring.

Training Focus:

The Training is essentially for users intending to use Hyperspectral data for research and development projects and its utilization in various fields. The course could help the participants gain insight into the complexities of using Hyperspectral data, processing techniques, analysis and applications with necessary demonstrations & Hands-on (using ENVI) to enhance the understanding on the subject. Domain experts in the respective areas will deliver and interact with participants during the course. Data transformations, feature extraction techniques, classification & spectral quantitative analytical methods will be dealt-with during the course.

Eligibility & Selection

Users having Masters in Science or Bachelors degree in Engineering or Graduation with 2 years of experience in relevant areas. Knowledge in Remote Sensing Applications using multispectral data and experience in using Image Processing software is essential. Selection of candidates is subject to fulfillment of eligibility criteria, current utilization, scope of work in the domain and prior exposure to remote sensing tools will be considered.

How to Apply?

Duly filled applications form with sponsorship certificate are invited from working professionals of State Government / Central Government Departments, NGOs, Private Companies and Faculty/Research Scholars from Academic Institutions who are gearing up to utilize the Hyper spectral Remote Sensing data. The application form should reach NRSC, Hyderabad by speed post (EMS) by April 13th, 2022. Candidates can send a scanned copy of the application form with course fee DD to training@nrsc.gov.in (attachment < 4 MB)as advance copy and duly send the originals by speed post to reach the address mentioned below before the due date.

Course Fee & Admission

Kindly enclose and send duly filled application form with sponsorship certificate & course fee DD to be paid in favor of Pay & Accounts Officer, NRSC (payable at Hyderabad) should reach us on or before the due date. Selected candidates will be intimated by email/mobile. Candidates will be provided accommodation in NRSC Guest House II inside the campus and food is served by NRSC canteen at a nominal price. *Right of admission reserved with NRSC.*

Course fee (Rs.) for individual candidate				
Central Govt./ State Govt.	**PSU/ Autonomous Bodies & its Institutes**	**Private/ NGO** (Fee + GST 18%)	**Academia**	
			Pure Govt. Institutes	**Private/ Other Institutes**
4600	4600	5800 + 1044 = 6844	4300	4300

* GST of 18% is applicable to any receipt amount exceeding Rs. 5000/-

Postal Address:

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