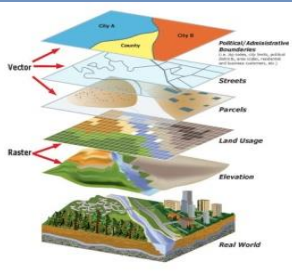




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Training Programme on
Effective Utilization of
Space Technology for
Water Resources
Management
(Under NHP)



Organized & Conducted By
Water Resources Group, RSAA
National Remote Sensing Centre (NRSC)
Indian Space Research Organization (ISRO)
Balanagar, Hyderabad 500037

Background

National Hydrology Project (NHP) is being taken up by Ministry of Water Resources, Govt. of India. The mission is to assist the effective water resources planning, development and management within each implementing agencies based on sound scientific driven framework. In this connection, NRSC has taken up the task to support NHP upon the request from Ministry of Water Resources, River Development & Ganga Rejuvenation (MoWR, RD&GR) through capacity building training programs, which consists of Remote Sensing & GIS fundamentals, customized water resources applications, and advanced topics in water resources.

Objectives

Two training programmes are aimed at capacity building of stake holders in understanding and effective utilization of space technology products relevant to water resources. These programmes are:

- a) Two training programs per year of one week duration each on RS & GIS fundamentals and state of art geospatial technologies with 25 participants per batch (2017-18 to 2023-24)
- b) Two customized training programs per year of two weeks duration each on RS & GIS applications in water resources management with 25 participants per batch (2016-17 to 2023-24)

Targeted Audience

Working level officials from the State and Central Government organisations across India and working in the field of water resources /hydrology or relevant fields.

Training Schedule:

Training Programme	Batch 1	Batch 2
One week training programme on RS & GIS fundamentals	Jul 31 - Aug 04, 2017	Oct 9 - 13, 2017
Two week training programme on RS & GIS Applications to Water Resources	Sep 18 - 29, 2017	5-16, Feb 2018



Training Focus

The training programme consists of classroom lectures, case studies, tutorials, interactive sessions, and hands on training.

1. One week training programme

- Fundamentals of Remote Sensing, Satellites & Sensors
- Principles of Image Interpretation & Visualization
- Basics of Digital Image Processing
- Concepts of Geographic Information System
- Fundamentals of GPS and Mobile Applications
- Introduction to Bhuvan and other web Applications
- Recent trends in remote sensing and GIS

2. Two week training programme

- Basics of Remote sensing, DIP, GIS, and Remote sensing and GIS application to..
- Water resources assessment (hydrological modelling, surface water budgeting, etc.)
- Water resources management (Irrigation water management, drought monitoring, reservoir sedimentation, etc.)
- Water resources development (water harvesting, water body mapping, command area development, etc.)
- Watershed characterisation (DEM applications, erosion assessment, watershed management, etc.)
- Disaster applications (flood forecasting, flash flood studies, flood disaster mapping and monitoring, etc.)
- Snow cover mapping, snow dynamics study, snow runoff modelling, and GLOF studies
- Groundwater prospectus mapping, hydro-geological studies, groundwater modelling, etc.
- Environmental impact assessment studies of water resources projects
- Water resources web-portals, dash-boards, mobile apps. etc.



COURSE FEE & ACCOMMODATION

There is no course fee for both the programmes. Accommodation (twin sharing basis) & boarding will be provided to the candidates in NRSC hostels. Travel expenses have to borne by the sponsoring organisations only. Completed application form has to reach the below given address through proper channel two weeks before the commencement of course.

About NRSC

National Remote Sensing Centre (NRSC), an entity of Indian Space Research Organization (ISRO) under Department of Space, Govt. of India, is engaged in the acquisition of Remote Sensing satellite data, processing, dissemination and value addition for monitoring & management of natural resources, natural disaster management support services besides use of space inputs in various application domains. NRSC operates through its six wings, namely, Satellite Data Reception & Ingest Systems Area, Data Processing Products Archival & Web Applications Area, Remote Sensing Applications Area, Earth & Climate Sciences Area, Aerial Survey Digital Mapping & Outreach Area and Regional Centers.

About Hyderabad

Hyderabad (17°22' N, 78° 30' E) is the capital of the southern Indian state of Telangana and de jure capital of Andhra Pradesh. Hyderabad is Occupying 625 square Kilometers along the banks of the Musi River making it the fourth most popular city in India. Rashtrapati Nilayam in the city has been the winter office of the President of India. Hyderabad experiences an annual mean temperature of 26.6°C. Summers are hot and sometimes temperature exceeds 40°C. Generally December and January are coolest months with minimum temperature of 15°C .

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