



**NATIONAL INSTITUTE OF RURAL DEVELOPMENT & PANCHAYATI RAJ  
NORTH EASTERN REGIONAL CENTRE  
KHANAPARA, GUWAHATI - 781 022**

**COURSE BROCHURE**

**Title of the Programme:** Online Training Programme on Geospatial Technologies for Resource Mapping for RD Programmes (November 22 – 26, 2021)

- 1. Background:** The preparation of resources inventory is mandatory is necessary condition for preparation of well-articulated and appropriate plan under any rural development programmes. The Geo-Spatial Technologies have the ability to generate, store, retrieve, analyze and display the accurate and up to date stock of various resources and has been a powerful tool for management of the resources on sustained basis.

The development department's particularly agri-allied, soil conservation, forest, irrigation, rural roads, Drinking water and Sanitation etc. in the states while implementing the rural development programmes are found to accomplish the resource management task without the application of this powerful advance tool. This is found largely due to lack of application skill of the technology among the officers expected to discharge the job. In order to fill this application skill gap, a training programme titled "Application of Geo-Spatial Technologies for Resource Mapping" proposed.

**Objectives:**

- ❖ To introduce basics of Geo-Spatial Technologies (RS, GIS & GPS)
- ❖ To develop a skill on the usage of GPS for asset mapping.
- ❖ To enable the participants to evaluate the natural resources using the latest Geo-Spatial technologies.
- ❖ To acquaint participants with various data sources (Topo sheets and satellite images) for generation of Resource Mapping for planning and monitoring purpose.

**Programme Content:**

- ❖ Introduction to Geo-informatics (RS, GIS & GPS)
- ❖ Concept of resource classification and resource mapping
- ❖ Geo-spatial applications for resource mapping – Case study
- ❖ Introduction to QGIS software and Georeferencing
- ❖ Geodatabase creation and features extraction for resource mapping
- ❖ Introduction and Demonstration of Mobile GPS for Geo-tagging of resources.
- ❖ Editing features, Addition of field & Attribute attachment of features and tables & querying
- ❖ Map Generations & preparation of thematic Map /Template
- ❖ Online GIS mapping applications for RD (GoogleEarth, GramManchitra and Bhuvan etc.)

**Clientele Group:** The course is intended for State and district level officers from the department of rural development including DRDAs, Panchayati raj, agriculture, soil & water conservation, forest, agriculture, fisheries, disaster, irrigation, rural roads, Drinking water & sanitation, rural works and senior executives of NGOs engaged in Resource Mapping..

**Duration:** Five days (November 22-26, 2021)

**Course Fee:** There is no course fee.

**Venue/Type of programme:** Online

**Course Directors:** Dr. A. Simhachalam and Shri S K Ghosh

**Last date:** Online registration should be done on or before November 15, 2021.

**The link for registration:** <https://forms.gle/yZoQZasRR5PYA66>

