

NATIONAL REMOTE SENSING CENTRE

2-Week Customized Course on

“Water Resources Assessment using Geospatial data inputs”

(For water resources engineers of Central / State Govt. Departments
under National Hydrology Project)

11 - 22 February 2019

PROGRAMME SCHEDULE

Date	Topics Covered
Day-1 : 11-Feb-2019	Introduction to Remote Sensing, Image Enhancement Techniques, Satellite Data Products, Image Interpretation Techniques, Image Classification / Pattern Recognition
Day-2 : 12-Feb-2019	Introduction to GIS and Spatial Data Analysis Techniques with Hands-on Exercises in GIS
Day-3 : 13-Feb-2019	DEM Applications, Open data sources for water resources, Open sources GIS (Q-GIS) with Hands-on Exercises on open sources GIS
Day-4 : 14-Feb-2019	Surface Water Resources assessment-Definitions and Methods, Geospatial data inputs for WRA, Rainfall-Runoff modeling (Rational, Empirical methods) with Hands-on Exercises
Day-5 : 15-Feb-2019	Rainfall Runoff Modelling (SCS-CN and Slope corrected SCS-CN method) with Hands-on Exercises
Day-6 : 18-Feb-2019	Direct runoff estimation methods (UH methods) with Hands-on Exercises
Day-7 : 19-Feb-2019	Flow Routing Methods with Hands-on Exercises
Day-8 : 20-Feb-2019	Overview of Water Accounting Plus software, Basin scale Water Resources Assessment using Space Inputs, Water Budgeting for Planning and Management-A case study in AP
Day-9 : 21-Feb-2019	National Rural Drinking water mission for MDWS with emphasis on prospects and quality mapping-An overview, Ground Water Prospects Mapping and Ground Water Budgeting with demos
Day-10 : 22-Feb-2019	Demo on India WRIS, TWRIS, APWRIMS and Demo and Hands-on Bhuvan Web Services