

Course title: Geoinformatics for Water resources			
Course code: NRG 183	No. of credits: 3	L-T-P: 30-00-30	Learning hours: 45
Pre-requisite course code and title (if any):			
Department: Department of Natural and Applied Sciences			
Course coordinator(s): Dr. Ayushi Vijhani		Course instructor(s): Dr. Ayushi Vijhani	
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Course type: Elective		Course offered in: Semester 3	
Course description Course start with basis overview of Remote Sensing and GIS application in Water Resources followed by basic concept of hydrological process and estimation of hydrological parameters. Geospatial technique to evaluate and management of watershed. Further soil, snow, glacier study link with water resources and enhanced the capability to estimate water budget of the watershed. A detail description on ground water with basic knowledge to evaluating the hydrogeomorphology and quality aspects of water. Finally, the water resources link with climate change and hydrological disaster			
Course objectives: Enhance the capability and advanced knowledge of Geoinformatics tools and technique to understand, monitor, mapping and management of Water Resources in various aspects.			