

Course title: Hydrology			
Course code: NRE 162	No. of credits: 3	L-T-P: 30-15-0	Learning hours: 45
Pre-requisite course code and title (if any):			
Department: Natural and Applied Sciences			
Course coordinator: Dr Ranjana Chaudhuri		Course instructor: Dr Ranjana Chaudhuri	
Contact details: ranjana.chaudhuri@terisas.ac.in			
Course type: Elective		Course offered in: Semester 2	
Course Description			
<p>This course will introduce the concepts of hydrology. It would also provide an understanding of the basic methods and techniques to analyze the different factors governing the hydrological cycle. It would provide the students with an overview of monitoring and evaluation of hydrologic elements. A field-trip or a large-scale laboratory experiment will provide an exposure to the monitoring of hydro-meteorological parameters in practice. It would prepare the students to take up water resource management later on, leading to sustainable development.</p>			
Course objectives			
<ol style="list-style-type: none"> 1. Analyse precipitation data in detail, presentation of rainfall data and calculation of missing precipitation data 2. Assess precipitation losses like evaporation, transpiration and infiltration 3. Measure discharge and calculate runoff using empirical formulae 			