

Course title: Groundwater Hydrology and Management			
Course code: NRE 163	No. of credits: 3	L-T-P: 31-14-0	Learning hours: 45
Pre-requisite course code and title (if any): NRE 113 Applied Mathematics, NRE 162 Hydrology			
Department: Natural and Applied Sciences			
Course coordinator: Dr Saumya Arya		Course instructor: Dr Saumya Arya	
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Course type: Elective		Course offered in: Semester 3	
<p>Course Description</p> <p>This course will provide an insight into the field of groundwater hydrology. The students will equip themselves with the knowledge of interpretation of groundwater data, conducting the surface and subsurface investigations for the groundwater using the latest methods and tools. The students will be able to learn basic fundamentals of groundwater flow, storage and yield. They will also learn various methods of well development. The concepts of groundwater basin management, conjunctive use, competing demands, recharge and mining will add in equipping students to take better decisions in groundwater management.</p>			
<p>Course objectives</p> <ol style="list-style-type: none"> 1. To learn basic fundamentals of groundwater flow 2. To learn the hydraulics of different kinds of wells 3. Conjunctive use of ground water along with other fresh water sources 			