

Course title: Integrated Watershed Management			
Course code: NRE 167	No. of credits: 3	L-T-P: 33-12-0	Learning hours: 45
Pre-requisite course code and title (if any): NRE 162 Hydrology (preferable)			
Department: Natural and Applied Sciences			
Course coordinator: Dr C.K. Singh		Course instructor: Dr C.K. Singh	
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Course type: Elective		Course offered in: Semester 3	
Course Description The course is conceptualized to provide competency in understanding the impact of landuse changes on various hydrological cycle parameters and soil erosion and choosing suitable soil and water conservation techniques to control it. It tries to touch upon divergent disciplines relevant to this complex topic. The course is designed as an elective to help capacity building of the candidates to undertake research work or professional assignment in the sub-fields of watershed management, which plays a key role in sustainable development.			
Course objectives <ol style="list-style-type: none"> 1. To understand different watershed behaviour 2. To be able to interpret runoff data and quantify erosion by using various modelling methods 3. To understand land use classification and impact of land use changes on hydrological cycle parameters 			