

Course title: Water Quality Management			
Course code: NRE 142	No. of credits: 3	L-T-P: 35-10-0	Learning hours: 45
Pre-requisite course code and title (if any): NRE 131 Environmental Chemistry and Microbiology, NRE 137 Environmental Monitoring laboratory			
Department: Natural and Applied Sciences			
Course coordinator:		Course instructor: Dr Chandrashekhar Azad Vishwakarma, Dr Adil Masood	
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Course type: Elective		Course offered in: Semester 2	
Course Description The purpose of the course is to develop understanding of water quality criteria, standards, impacts of water pollutants and treatment methods. It focuses on cause and effects of water pollution and water quality degradation from range of sources. Further, it illustrates each unit processes, functions of the processes in water or wastewater treatment and basic equipment that each process uses. The course is formatted in four parts: Part I covers the basics of water pollutants, their impacts, quality criteria and standards; Part II covers the basics of water treatment for public water supply; Part III covers the basics of wastewater treatment for municipal sewage; and Part IV covers the contemporary issues in water resource management and pollution control strategies.			
Course objectives <ol style="list-style-type: none"> 1. To understand water quality criteria, and standards 2. To comprehend knowledge about sources, cause and impacts of water pollutants 3. To be abreast with physical, chemical and biological methods water treatment 			