

<b>Course title:</b> Geoinformatics for Resource Management			
<b>Course code:</b> NRE 175	<b>No. of credits:</b> 4	<b>L-T-P:</b> 30-07-46	<b>Learning hours:</b> 60
<b>Pre-requisite course code and title (if any):</b> A good knowledge of principles of geoinformatics is expected from each of the student attending this course work. Interests in spatial data and applications will help. Fundamentals of computers and different packages are expected for the practical component of the course work.			
<b>Department:</b> Natural and Applied Sciences			
<b>Course coordinator(s):</b>		<b>Course instructor(s):</b>	
<b>Contact details:</b>			
<b>Course type:</b> Elective		<b>Course offered in:</b> Semester 3	
<b>Course description</b> The course is conceptualized to provide competency in remote sensing (RS), geographic information systems (GIS), global positioning system (GPS), and related technologies. The course is designed as an elective to take up research work (at M.Sc./M.Phil/Ph.d. level) in the sub- fields of environmental studies, resource management and climate change studies. This elective course will be offered to students of M.Sc. (Environmental Studies and Resource Management and Climate Science & Policy) and pre-Ph.D. Students from other programs are also encouraged to attend this. This course is extension of the Principles of Geoinformatics. It is to develop skills of the students in field of RS/GIS/GPS. The course is not limited to the topics given below. The students are suggested to read different books, magazines and peer reviewed journals.			
<b>Course objectives</b> <ul style="list-style-type: none"> <li>▪ Understanding digital image processing</li> <li>▪ Understand the characteristics of spatial databases (raster and vector)</li> <li>▪ Understand unlined principles of spatial data analysis</li> </ul>			