

Course Title: Introduction to Geographic Information Systems			
Course code: SEC 201	No. of credits: 3	L-T-P: 36-03-12	Learning hours: 45
L: Lecture; T: Tutorial; P: Practical			
Pre-requisite course code and title (if any): None			
Department: Natural and Applied Sciences			
Course coordinator:		Course instructor:	
Contact details:			
Course type: Skill Enhancement Course		Course offered in: Semester 3	
Course Description This course provides an overview of Geographic Information System (GIS) technology and its applications in various fields. Students will learn the fundamental concepts of GIS, including spatial data collection, data management, analysis, visualization, and interpretation. Students will also gain hands-on experience with GIS software to generate data and manipulate geographic data, perform spatial analysis, and create maps.			
Course objectives <ul style="list-style-type: none"> • Provide students with an understanding of the fundamental concepts of Geographic Information System (GIS) and its applications in various sectors. • Familiarize students with the basic concepts of spatial data types, nature of data and formats commonly used in GIS. • Introduce students to data collection methods and different GIS software to manipulate, analyze, and visualize spatial data. • Develop skills in creating maps, performing spatial analysis, and interpreting GIS results. • Apply GIS principles to real-world projects and case studies to solve spatial problems and make informed decisions. 			