

2024		M.Tech-Geospatial Technology
Course Code	Course Title	Description of the Course Outcome
15CE5109	Fundamentals of Geospatial Technology	Understanding the fundamentals of geospatial technology
		Understanding about physics of remote sensing
		Understanding about remote sensing platforms and sensors
		Understanding about Visual Image Interpretation and Image Analysis
15CE5110	Geographical Information System	Understanding about the Geographical information system
		Understanding about GIS data management
		Understanding about the GIS data input and data editing
		Understanding about data quality of GIS
		Report preparation on GIS
15CE5111	Advanced Computer Programming & Statistics	Understanding about the Computer basics and Arithmetic operators
		Understanding about the Constructors
		Understanding about the Concept of Random variables
		Understanding about the Concept of testing of hypothesis critical region
15CE5112	Photogrammetry	Knowing and Understanding about basic concept of Photogrammetry
		Understanding about the Stereo Photogrammetry
		Understanding about the control for Arial photography
		Understanding about the aerial triangulation
15CE51E1	Principles of Earth & Environment Sciences	Knowing and understanding the Fundamentals of Earth Sciences
		Knowing and understanding the Fundamentals of Geomorphology
		Understanding about the Scope of ecology in environmental management
		Understanding about the Structure and Function of Ecosystem
15CE51F2	Environmental Geoinformatics	Knowing and understanding about Fundamentals & Management
		Understanding about the Rain Water-Harvesting Methods
		Understanding the concept of Wetlands
		Understanding the concept of watershed
15CE5213	Digital Image Processing	Knowing and understanding about data base management systems
		Understanding about database design & data queries
		Understanding about forms, reports and applications of Digital Image Processing

		Understanding the concept of data base administration
15CE5214	GIS Data Analysis and Modelling	Understanding the concept of topographical surveying
		Understanding the concept of Advanced Surveying
		Knowing and understanding about Topographical Surveying
		Understanding the Project Planning concept
15CE5215	Geodesy and GPS	Understanding the basic fundamental of geodesy and GPS
		Understand the concept of computation or ellipsoid
		Knowing and understanding the concept of global positioning system (GPS)
		Knowing and understand about GPS Mathematical and GPS application
15CE5216	Geospatial Applications	Knowing about Plant Sciences
		Knowing about Earth Sciences and Hydrosphere Sciences
		Understand the concept of Land Use and Land Cover
		Understand the concept of Global Remote Sensing
15CE52G3	Engineering Survey Methodology and Instrumentation	Understand the basic Fundamentals of engineering drawing
		Knowing about techniques of depth sounding and ranging
		Understand the concept of Digital Elevation Models
		Knowing about Electronic theodolites and levels and their applications
15CE52H4	Urban Water Management using Geomatics	knowing and understanding about the urbanization and its effect on water cycle
		Knowing and understand about Master drainage plans
		Understand about Elements of drainage systems
		Knowing and understand about Best Management Practices