

Course Name	
DIGITAL MAPPING TECHNIQUES	
Course Code	CE 611
Department	Civil Engineering
Course Instructor	Dr.Orhan ERCAN
Telephone	+90312 480 65 26
Office Number	
Hours / Semester	Lecture:28 hrs Field Work / Laboratory: 28 hrs
Learning Outcomes	<p>The aim of this course is to introduce the concept of digital mapping techniques. The 14 week course concentrated on coordinate and coordinate systems, basic datum for point determination systems, global positioning systems, point determination using GPS technology, softcopy photogrammetry, photogrammetric map production, remote sensing and satellite based application, mapping standards and quality control.</p> <p>The course is supported with a lab and GPS field work activities and image based (satellite raw-scanned) computer lab applications. The GPS field work activities are performed in the campus site at the most suitable locations depending on the aim of the fieldwork.</p>
Course Content	Coordinates, Basic Coordinate Systems, Ellipsoids And Datums, Coordinate Systems, Global Positioning Systems, Softcopy Photogrammetry, Remote Sensing, Mapping Standard,
Type of course	Must
Course level	Graduate
Year of study	
Semester	Spring
Course Credit (ECTS)	3 credits
Course Length	1 semester
Pre-requisite/s	None
Coursework	
Main Teaching Methods	The course is supported with a GPS field work activities and image based (satellite raw-scanned) lab applications. Industrial trips will be organized.
Assessment Modes and Weights	Field Works, Projects and Report Writing 30%, Class Participation 10%, Midterm I 15%, Midterm II 15%, Final 30%
Bibliography	Printed notes is available.