

Course Title-Course Code: CE 631 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEM							Name of the Programme: CIVIL ENGINEERING		
Semester	Teaching Methods							Credits	
	Lecture	Recite	Lab.	Field Study	HW	Other	Total	Credit	ECTS Credit
1-2	42	0	0	0	0	146	188	3	7.5
Language	Turkish								
Compulsory / Elective	Elective								
Prerequisites	-								
Course Contents	Geographic Information Systems; concepts, components, Maps and projections, Database Management Systems, Spatial data models and analyses								
Course Objectives	to provide the students with fundamental concepts of Geographic Information Systems (GIS) and, to familiarize the students with a GIS software by hands-on experiences. The methods of data input, output, and editing operations are described. Database Management Systems (DBMS), their significance and usage are addressed. Representation and organization of spatial data are emphasized. Topology and its role in GIS analysis operations are provided.								
Learning Outcomes and Competences									
Textbook and /or References	Aronoff, S., (1993) Geographic Information Systems: A Management Perspective, WDL Publications, Ottawa, Canada Antenucci, J.C., (1991) Geographical Information Systems: A guide to the Technology, Van Nostrand Reinhold, New York. Burrough, P.A., (1990) Principles of Geographic Information Systems for Land Resource Assessment, Clarendon Press, Oxford. DeMers, M. N., (2005) Fundamentals of GIS, John Wiley and Sons Heywood, I., S. Cornelius, S. Carver, (1998) An Introduction to Geographical Information Systems, Longman Publ. Yomralioğlu, T., (2000) Coğrafi Bilgi Sistemleri: Temel Kavramlar ve Uygulamalar, KTÜ, Trabzon. <a href="http://www.ncgia.ucsb.edu/education/curricula/giscc/">http://www.ncgia.ucsb.edu/education/curricula/giscc/</a>								
Assessment Criteria								<i>If any, mark as (X)</i>	<b>Percent (%)</b>
	<i>Midterm Exams</i>							X	40
	<b>Quizzes</b>								
	<b>Homeworks</b>								
	<b>Projects</b>								
	<b>Term Paper</b>								
	<b>Laboratory Work</b>							X	25
	<b>Other</b>								
	<b>Final Exam</b>							X	35

<b>Instructors</b>	Dr. Nurünnisa Usul, Dr Zuhâl Akyürek
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