Course Title-Course Code: CE 609 BASICS OF GEOTECHNICAL PRINCIPLES ON EARTHQUAKE RESISTANT BUILDING DESIGN	Name of the Programme:CIVIL ENGINEERING

Semester	Teaching Methods							Credits	
	Lecture	Recite	Lab.	Field Study	H W	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	Definition of some earthquake related terms, Strong ground motion, response spectrum, analysis of local site effects, Dynamic soil properties and liquefaction phenomena.
Course Objectives	Introduction of practical, technical aspects of all stages of geotechnical earthquake resistant building design from planning to the application of a project.
Learning Outcomes and Competences	Understanding the principles and the procedures of geotechnical earthquake resistant building design
Textbook and /or References	Geoteknik deprem mühendisliği elkitabı, Robert W. Day, McGraw-Hill Publishing Company, (Çevirenler Murat Mollamahmutoğlu ve Kamil Kayabalı), Gazi Kitabevi

Assessment Criteria		*If any,mark as (X)*	Percent (%)
	Midterm Exams	X	60
	Quizzes		
	Homeworks		
	Projects		
	Term Paper		
	Laboratory Work		
	Other		
	Final Exam	X	40

Instructors	Prof. Dr. Murat MOLLAMAHMUTOĞLU