

T.C. MUNZUR ÜNİVERSİTESİ Lisansüstü Eğitim Enstitüsü Müdürlüğü

COURSE IDENTIFICATION FORM								
Course Code an RESISTANT BU	050 EARTHQUAKE GN		Department of : CIVIL ENGINEERING / MASTER PROGRAMME					
Semester	Theoretic Hour	Practice Hour	Total Hour	Credits	ECTS	Education Language	Type: Compulsory Elective	
Atumn/Spring	3	0	3	3	5	Turkish	Optional	
Prerequ	isite (s)							
Instructor		Prof. Dr. Burak YÖN				Mail: burakyon@munzur.edu.tr Web:		
Course Assistant		Mail : Web :						
Groups /	Classes							
Course Aim		To teach the rules to be followed in earthquake-resistant building design and the methods used in this design.						
Course Goals		 To give students basic information about earthquakes, seismic waves and the behavior of structures against these waves. To teach the basic principles that should be taken into consideration in earthquake resistant building design. Examining national and international standards, regulations and best practice examples in earthquake-resistant building design. 						
	 Students will be able to apply the rules to be followed in architect design for earthquake-resistant building design. Students will be able to compare building load-bearing systems use earthquake-resistant building design. Students will be able to use equivalent horizontal load, mode coupand time history calculation methods. 						earing systems used in	
Course Basic a Cont	 ASCE 7 Minimum Design Loads for buildings and other Structures. Chopra, A. K., "Dynamics of Structures, Theory and Applications to Earthquake Engineering", Prentice Hall, 2001 Earthquake Engineering Handbook, WF. Chen and C. Scawthorn, CRC Press, 2003 Türkiye Building Earthquake Regulation Z. Celep, Introduction to Earthquake Engineering and Earthquake Resistant Building Design (in Turkish). Newmark, N. M., Rosenblueth, E.; Fundamentals of Earthquake Engineering, Prentice Hall, 1971 Geotechnical Earthquake Engineering, S., L. Kramer, Prentice Hall, 							



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	1996
	Face to Face
Methods of Give a Lecture	

Assessment Criteria			If Available, to Sign (x)	General Average Percentage (%) Rate			
		Midterm Exam	X	50			
		1. Quiz					
		2. Quiz					
		3. Quiz					
		4. Quiz					
		Oral Examination					
		Practice Examination					
		(Laboratory, Project etc.)					
		Final Exam	X	50			
		Semester Course	Plan				
Week		Subjects					
1	Introduction						
2	Earthquake Causes and Types						
3	Earthquake Parameters						
4	Rules to be followed in Architectural Project						
5	Rules to be followed in Architectural Project						
6	Load Carrying System Elements						
7	Building Carrier Systems						
8	Midterm Exam						
9	Obtaining Response Spectra						
10	Türkiye Building Earthquake Regulation						
11	Equivalent Horizontal Load Method						
12	Mode Combination Method						
13	Calculation Method in the Time Domain						
14	Final Exam						



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