

T.C. MUNZUR ÜNİVERSİTESİ Lisansüstü Eğitim Enstitüsü Müdürlüğü

COURSE IDENTIFICATION FORM									
Course Code an ASSESSMENT IN BUILDINGS	052 DAMAGE HENING METHODS		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		Information will be given and practices will be given about the evaluation of damages caused by structural faults and earthquakes and the repair and strengthening methods to make the damaged structures reusable.							
Course Goals		 To teach the student to evaluate structural and non-structural damages caused by various factors and to determine appropriate strengthening methods. 							
Course Learn Profici	_	 Students will be able to identify the types and causes of damage in damaged structures. Students will learn how to make structural and non-structural damages reusable through repair and strengthening methods. Determining the level and technique of repair and strengthening and preparing projects. 							
Course Basic a	 Lecture Notes N. Bayülke, Repair and Strengthening of Structures Damaged in Earthquakes (in Turkish). Türkiye Building Earthquake Regulation Z. Celep, Introduction to Earthquake Engineering and Earthquake Resistant Building Design (in Turkish). Z. Celep, Reinforced Concrete Structures (in Turkish) 								
Methods of G		Face to Face	e				i Telefon: +90 (428) 213 17 94		



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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, Determination, evaluation and classification of damage types.							
2	Crack and damage types in Reinforced Concrete Structures							
3	Damage types in masonry structures							
4	Determination of building safety							
5	Building reinforcement approaches and element reinforcement details							
6	Methods for evaluating reinforced concrete structure behavior and application to a sample structure							
7	Analysis of masonry structures under vertical and horizontal loads							
8	Midterm Exam							
9	Reinforcement problems in reinforced concrete structures							
10	Strengthening Reinforced Concrete Columns							
11	Strengthening Reinforced Concrete Beams							
12	Strengthening Reinforced Concrete Walls							
13	Repair and strengthening of existing buildings according to TDY-07 and TBDY-2018							
14	Final Exam							