

T.C. MUNZUR ÜNİVERSİTESİ Lisansüstü Eğitim Enstitüsü Müdürlüğü

COURSE IDENTIFICATION FORM								
Course Code an PROTECTION			Department of : CIVIL ENGINEERING / CIVIL ENGINEERING DEPARTMENT / HYDRAULICS MASTER'S PROGRAM WITH THESIS					
Semester	Theoretic Hour	Practice Hour	Total Hour	Credits	ECTS	Education Language	Type: Compulsory Elective	
Fall	3	0	3	3	5	Turkish	Optional	
Prerequ	isite (s)							
Instructor		Assist. Prof. Meral Korkmaz			naz	Mail: meralkorkmaz@munzur.edu.tr Web:		
Course Assistant					Mail : Web :			
Groups / Classes								
Course Aim		Determination of the causes of the occurrence of floods Classification of flood damages and collection of flood damages Notification of floods in advance Design of flood control structures Flood insurance issues are given.						
Course Goals		It aims to examine various engineering solutions to minimize the risks and damages caused by flood events.						
 Students will be able to design effective flood protection structures such as led dams, and floodwalls, taking into consideration environmental and structures. Through case studies, students will be able to critically evaluate the effective of different flood protection strategies and propose improvements. 						onmental and structural valuate the effectiveness		
Course Basic a	•	 Introduction to hydrological concepts, flood dynamics, and the use of models to predict flood events. Overview of engineering principles for designing structural solutions like levees, floodwalls, and stormwater management systems. 						
Methods of G	ods of Give a Lecture Providing detailed real-world examples for students to analyze and discuss, facilitating practical understanding of flood protection strategies.							



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Assessment Criteria			If Available, to Sign (x)	General Average Percentage (%) Rate				
		1. Quiz	X	30				
		2. Quiz						
		3. Quiz						
		4. Quiz						
		5. Quiz						
		Oral Examination						
		Practice Examination	X	20				
		(Laboratory, Project etc.)						
		Final Exam	X	50				
Semester Course Plan								
Week	Subjects							
1	What is flooding? What are the types and causes of floods?							
2	Floods in history and their causes							
3	Damages caused by floods and collection of damages							
4	Relationship of floods with time and advance notice of floods							
5	Reporting of floods according to the level and flow rates upstream and downstream							
6	Determination of flood waves							
7	Determination of flood wave by Waller method							
8	MIDTERM EXAM							
9	Flood periods							
10	Flood control works, unstructured flood control works							
11	Design of flood control structures							
12	Delaying floods from dam reservoirs Design of flood embankments and walls							
13								
14	Upstream and downstream planning in flood control. Flood insurance.							