

T.C. MUNZUR ÜNİVERSİTESİ Lisansüstü Eğitim Enstitüsü Müdürlüğü

COURSE IDENTIFICATION FORM									
Course Code a BRIDGE DESI	15043 HIGHWAY		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		Assoc. Prof. Erkan POLAT				Mail: erkanpolat@munzur.edu.tr Web:			
Course Assistant						Mail : Web :			
Groups / Classes									
Course Aim		The course aims to define the design vehicle loads used in the design of highway bridges and to design slab-type bridges, prestressed girder bridges, and steel girder bridges under these vehicle loads.							
Course Goals		 Learn the bridge design vehicle loads defined in AASTHO LRFD. Learn the design of single-span bridges. Learn the design of multi-span bridges. Learn the design of prestressed girder bridges. Learn the design of steel girder bridges. 							
Course Learn Profici		 Students will learn the mathematical modeling of highway bridges. They will learn how to create and analyze the established model in software packages. They will learn to evaluate the results of the solved model in terms of accuracy. 							
Course Basic a Cont	•	 Course Notes AASTHO LRFD Bridge Design Specification 							
Methods of G	ive a Lecture	The course will be conducted in class.							

Assessment Criteria	If Available, to	General Average
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			Sign (x)	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	Definition	Definition of AASHTO Design Vehicle Loads					
2	Highway I	Highway Bridge Slab – Concrete Deck Design					
3	Slab-Type	Slab-Type Bridge Design					
4	Slab-Type	Slab-Type Bridge Design					
5	Continuo	Continuous Slab Bridge Design					
6	Continuo	Continuous Slab Bridge Design					
7	Midterm	Midterm Exam					
8	Prestresse	Prestressed Girder Bridge					
9		Prestressed Girder Bridge					
10		Design of Prestressed Girder Bridges					
11		Design of Prestressed Girder Bridges					
12		Design of Steel Girder Bridges					
13	Design of Steel Girder Bridges						
14	Final Exam						