

T.C. MUNZUR ÜNİVERSİTESİ Lisansüstü Eğitim Enstitüsü Müdürlüğü

COURSE IDENTIFICATION FORM									
Course Code and Name: IM5010 ROAD MATERIALS				Department of: CIVIL ENGINEERING / MASTE PROGRAMME			EERING / MASTER		
Semester	Theoretic Hour	Practice Hour	Total Hour	Credits	ECTS	Education Language	Type: Compulsory Elective		
Atumn/Spring	3	0	3	3	5	Turkish	Optional		
Prerequisite (s)									
Instructor		Assoc. Pro	f. Dr. Mı	ıstafa AKF	Mail: mustafaakpolat@munzur.edu.tr Web:				
Course Assistant		Mail : Web :							
Groups / Classes									
Course Aim		1. To give theoretical and practical knowledge about aggregates used in pavements. 2. To give theoretical and practical knowledge about bituminous binders used in pavements. 3. To teach the theoretical calculations of bituminous mixtures 4. To give information about the methods related to bituminous mixture design. 5. To give information about sustainable pavement construction.							
Course Goals		Aggregates used in pavements, types, properties, classification, aggregate tests. Bituminous binders used in pavement layers, properties, classification, modification, bitumen tests. Volumetric and mechanical properties of bituminous mixtures. Bituminous mixture design methods. Recycling design and geotextiles.							
Course Learn Profici	_	1. Understanding the properties of aggregates used in road pavement. 2. Understanding the properties of bituminous binders used in pavements. 3. To be able to make bituminous mixture calculations. 4. Gaining the ability to build a sustainable pavement.							
Course Basic a Cont	Highways Maintenance Manual Highways Project Design Guide Prof. Dr. Baha Vural KÖK - Flexible Pavements Lecture Notes Yol malzemeleri- Argun TUNÇ								
Methods of G	Face to Face Ensures interest								



T.C. MUNZUR ÜNİVERSİTESİ Lisansüstü Eğitim Enstitüsü Müdürlüğü

Assessment Criteria			If Available, to Sign (x)	General Average Percentage (%) Rate				
		Midterm Exam	X	40				
		1. Quiz						
		2. Quiz						
		3. Quiz						
		4. Quiz						
		Oral Examination						
		Practice Examination						
		(Laboratory, Project etc.)	N/	<u> </u>				
		Final Exam	X	60				
		Semester Course	Plan					
Week		Subjects						
1	Introduction and general information							
2	Aggregates used in road pavement							
3	Aggregates used in road pavement and aggregate tests							
4	Binders used in road pavement							
5	Classification of binders and modified binders, binder tests							
6	Volumetric and mechanical properties of bituminous hot mix							
7	Volumetric and mechanical properties of bituminous hot mix							
8	Superstructure design method							
9	MIDTERM EXAM							
10	New design methods							
11	Bituminous mixture design method							
12	Bituminous mixture design method and laboratory study							
13	New mix design methods							
14	Bituminous mixtures recycling mix design and geotextiles							