

COURSE IDENTIFICATION FORM

Course Code and Name: IM5009 CONCRETE
ROADS

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
Prerequisite (s)							
Instructor		Assoc. Prof. Dr. Mustafa AKPOLAT				Mail : mustafaakpolat@munzur.edu.tr Web :	
Course Assistant						Mail : Web :	
Groups / Classes							
Course Aim		1.Defining the Properties of Concrete 2.Explanation of Quality Control Experiments 3.Explanation of Concrete Road Elements 4.Design and Projecting of Rigid Superstructures					
Course Goals		Selection criteria for concrete road construction. Properties of concrete. Quality control tests of materials and concrete. Design and project design.					
Course Learning Outs and Proficiencies		1. Superstructure Type Selection Methodology 2. Materials Used in Rigid Superstructure Production 3. Quality Control Experiments 4. Rigid Superstructure Design 5. Concrete Road Construction					
Course Basic and Auxiliary Contexts		Beton Yollar- E. AĞAR, İ. SÜTAŞ, G. ÖZTAŞ Yol malzemeleri- Argun TUNÇ					
Methods of Give a Lecture		Face to Face					

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.)		
	Final Exam	X	60
Semester Course Plan			
Week	Subjects		
1	Introduction		
2	Technical criteria for pavement type selection		
3	Economic criteria in pavement type selection		
4	Advantages and disadvantages of rigid pavements		
5	Surface properties of concrete roads		
6	Cement is one of the materials used in concrete roads		
7	Aggregates		
8	Water used in concrete		
9	MIDTERM EXAM		
10	Accessories		
11	Concrete admixtures		
12	Physical properties of concrete		
13	Quality control tests applied to concrete		
14	Design of concrete roads		