

Vocational School / Construction Technology
2024 - 2025 Academic Year
CONSTRUCTION of HIGHWAY
Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
CONSTRUCTION of HIGHWAY	İNŞ2177070	Fall Semester	3+0	3	4
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Elective				
Course Coordinator	Lect. Can DURMUŞ				
Name of Lecturer(s)	Lect. Mustafa BAYRAK				
Assistant(s)					
Aim	It is aimed to teach steps and basic calculations of highway construction.				
Course Content	This course contains; 1. Transportation Systems,2. Highway Standarts,3. Highway Line,4. Horizontal Curves, Vertical Curves,5. Horizontal CrossSections and Slope,6. Observation on Map and Land,7. Filling and Cutting Process,8. Art Structures,9. Highway Line Soil Works,10. Materials of The Main Body of Highway,11. Asphalt Coats,12. Concrete Coats,13. Transportation Planning,14. Transportation Planning.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
At the end of this course, the student will be able to;					
1. Do detection of the topographic situation of the land.			14, 2, 6, 9	F	
2. Do selection of route.			14, 2, 6, 9	F	
3. Evaluate the applications of highway standarts.			10, 14, 2, 6, 9	F	
4. Do calculations related to highway.			14, 2, 6, 9	F	
Teaching Methods	10: Discussion Method, 14: Self Study Method, 2: Project Based Learning Model, 6: Experiential Learning, 9: Lecture Method				
Assessment Methods	F: Project Task				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	1. Transportation Systems				
2	2. Highway Standarts				
3	3. Highway Line				
4	4. Horizontal Curves, Vertical Curves				
5	5. Horizontal CrossSections and Slope				
6	6. Observation on Map and Land				
7	7. Filling and Cutting Process				
8	8. Art Structures				
9	9. Highway Line Soil Works				
10	10. Materials of The Main Body of Highway				
11	11. Asphalt Coats				
12	12. Concrete Coats				
13	13. Transportation Planning				
14	14. Transportation Planning				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
Course PresentationsYayla, N., "Karayolu Mühendisliği", (2011), Birsen Yayınevi.