

DEPARTMENT OF CIVIL ENGINEERING  
COURSE SYLLABUS

Course Details				
<b>Code</b>	<b>Academic Year</b>			<b>Semester</b>
BAU531	1			1
<b>Title</b>	<b>T</b>	<b>A</b>	<b>L</b>	<b>ECTS</b>
Akıllı Ulaşım Sistemlerine Giriş Introduction to Intelligent Transportation Systems	3	-	-	6
<b>Language</b>	English			
<b>Level</b>	<b>Undergraduate</b>		<b>Graduate</b>	✓
<b>Department / Program</b>	Civil Engineering			
<b>Forms of Teaching and Learning</b>	Formal			
<b>Course Type</b>	<b>Compulsory</b>		<b>Elective</b>	✓
<b>Objectives</b>	The purpose of this subject is to introduce students to the basic elements of intelligent transportation systems (ITS), focusing on technological, systems and institutional aspects.			
<b>Content</b>	Advanced traveler information systems; transportation network operations; commercial vehicle operations and intermodal freight; public transportation applications; ITS and regional strategic transportation planning, including regional architectures: ITS and changing transportation institutions, ITS and safety, ITS and security, ITS as a technology deployment program, research, development and business models, ITS and sustainable mobility, travel demand management, electronic toll collection, and ITS and road-pricing.			
<b>Prerequisites</b>	-			
<b>Coordinator</b>				
<b>Lecturer(s)</b>	Dr. Ömer Faruk AYDIN			
<b>Assistant(s)</b>				
<b>Work Placement</b>				
Recommended or Required Reading				
<b>Books / Lecture Notes</b>				
<b>Other Sources</b>				
Additional Course Material				
<b>Documents</b>	-			
<b>Assignments</b>	-			
<b>Exams</b>	-			
Course Composition				
<b>Mathematics und Basic Sciences</b>	30			%
<b>Engineering</b>	70			%
<b>Engineering Design</b>				%

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Social Sciences		%
Educational Sciences		%
Natural Sciences		%
Health Sciences		%
Expert Knowledge		%

**Assessment**

Activity	Count	Percentage (%)
Midterm Exam		
Quiz		
Assignments	1	40
Attendance		
Recitations		
Projects		
Final Exam	1	60
<b>Total</b>		<b>100</b>

**ECTS Points and Work Load**

Activity	Count	Duration	Work Load (Hours)
Lectures	14	3	42
Self-Study	14	3	42
Assignments	1	10	8
Presentation / Seminar Preparation			
Midterm Exam			
Recitations			
Laboratory			
Projects			
Final Exam	1	2	2
<b>Total Work Load</b>			<b>96</b>
<b>ECTS Points (Total Work Load / Hour)</b>			<b>6</b>

**Learning Outcomes**

1	Introduction to ITS
2	Advanced Traveler Information Systems (ATIS)
3	Advanced Transportation Management Systems (ATMS)
4	Advanced Public Transportation Systems (APTS)
5	
6	

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7	
8	
9	
10	
11	
12	

**Weekly Content**

1	Introduction to ITS
2	Introduction to ITS
3	Introduction to ITS
4	Advanced Traveler Information Systems (ATIS)
5	Advanced Traveler Information Systems (ATIS)
6	Advanced Traveler Information Systems (ATIS)
7	Advanced Transportation Management Systems (ATMS)
8	Advanced Transportation Management Systems (ATMS)
9	Advanced Public Transportation Systems (APTS)
10	Advanced Public Transportation Systems (APTS)
11	ITS Applications
12	ITS Applications
13	Vehicle Operations
14	Vehicle Operations
15	Applications in Engineering

**Contribution of Learning Outcomes to Program Objectives (1-5)**

	P1	P2	P3	P4	P5	P6	P7
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							



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<b>Contribution Level</b>	1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High
<b>Compiled by:</b>	Dr. mer Faruk Aydın
<b>Date of Compilation:</b>	30.07.2021