

**DEPARTMENT OF CIVIL ENGINEERING  
COURSE SYLLABUS**

Course Details					
<b>Code</b>				<b>Academic Year</b>	<b>Semester</b>
ISG002				4	Fall
<b>Title</b>	<b>T</b>	<b>A</b>	<b>L</b>	<b>ECTS</b>	
Occupational Health and Safety II	2			2	
<b>Language</b>	German				
<b>Level</b>	<b>Undergraduate</b>	✓	<b>Graduate</b>		<b>Postgraduate</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>	Students gain an understanding of the basic terms relating to occupational safety, the duties of the engineer and the manager. The ability to communicate with a specialist for occupational safety is trained.				
<b>Content</b>	<p>The module is based on practical examples in occupational safety introduced. The following topics are particularly relevant:</p> <ol style="list-style-type: none"> <li>1) Basic terms of occupational safety</li> <li>2) Risk factors</li> <li>3) Accident prevention procedures</li> <li>4) Health protection</li> <li>5) Fire and explosion protection</li> </ol>				
<b>Prerequisites</b>	<b>min. 60% attendance to lectures is required in order to attend final exam.</b>				
<b>Coordinator</b>	Asst. Prof. Dr. M. Adil AKGÜL				
<b>Lecturer(s)</b>	Dipl.-Ing. J. KUNTZE, Asst. Prof. Dr. M. Adil AKGÜL				
<b>Assistant(s)</b>	RA Muhammed ADEMOĞLU, RA Taha YANIK				
<b>Work Placement</b>	--				
Recommended or Required Reading					
<b>Books / Lecture Notes</b>	„Praxishandbuch Arbeitssicherheit: Rechtliche und technische Grundlagen, Praktische Umsetzung, 60 Checklisten“, Christian Mag. (FH) Bayer und Andrea Mag. Schwarz-Hausmann MBA LL.M				
<b>Other Sources</b>	Lecture Notes				
Additional Course Material					
<b>Documents</b>					
<b>Assignments</b>					

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Exams			
<b>Course Composition</b>			
Mathematics und Basic Sciences			%
Engineering	30		%
Engineering Design			%
Social Sciences			%
Educational Sciences			%
Natural Sciences	30		%
Health Sciences	30		%
Expert Knowledge	10		%
<b>Assessment</b>			
<b>Activity</b>	<b>Count</b>		<b>Percentage (%)</b>
Midterm Exam	1		40
Quiz			
Assignments			
Attendance			
Recitations			
Projects			
Final Exam	1		60
		<b>Total</b>	<b>100</b>
<b>ECTS Points and Work Load</b>			
<b>Activity</b>	<b>Count</b>	<b>Duration</b>	<b>Work Load (Hours)</b>
Lectures	14	2	28
Self-Study	14	1	14
Assignments			
Presentation / Seminar Preparation			
Midterm Exam	1	7	7
Recitations			
Laboratory			
Projects			
Final Exam	1	7	7
		<b>Total Work Load</b>	<b>56</b>

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ECTS Points(Total Work Load / Hour)		2
<b>Learning Outcomes</b>		
1	Students gain an understanding of the basic terms relating to occupational safety, the duties of the engineer and the managerial staff.	
2	Ability to communicate with an occupational safety specialist.	
3	Knowledge about fire risks at the workplace and ability to assign and execute related preventive regulations.	
4	Ability to identify explosion risks at the workplace and to apply related countermeasures with related regulations.	
5	Knowledge on lighting instruments fulfilling required safety criteria.	
6	Ability to carry out a risk analysis study.	
7	Knowledge about load handling and carrying equipment.	
8	Knowledge about workplace pharmatics and rescue operations.	
9		
10		
11		
12		
<b>Weekly Content</b>		
1	Fire Protection 2.	
2	Fire Protection 3.	
3	Fire Protection 4.	
4	Fire Protection 5.	
5	Explosion Protection 1: Gas/vapor, Dust.	
6	Explosion Protection 2: Gas/vapor, Dust.	
7	Explosion Protection 3: Gas/vapor, Dust.	
8	Lighting	
9	Midterm Exam.	
10	Risk analysis 1.	
11	Risk analysis 2. Hoisting and load handling equipment 1.	
12	Hoisting and load handling equipment 2.	
13	Medical exams obligatory and voluntary, hints for first aid 1.	
14	Medical exams obligatory and voluntary, hints for first aid 2.	
15	Questions and comments	
16	Final Exam	

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

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

**Contribution Level**

1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High

<https://obs.tau.edu.tr/oibs/bologna/progLearnOutcomes.aspx?lang=en&curSunit=5728>

**Compiled by:**

Dr. M. Adil AKGÜL

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