

Course Details								
Code				Acad	Academic Year		Semester	
ISG001				4	4		7	
Title					A	L	ECTS	
Occupational Health and Safety I				2			2	
Language	German							
Level	Undergraduate √ Graduate				]	aduate		
Department / Program	Energy Science an	Energy Science and Technologies						
Forms of Teaching and Learning	Formal							
Course Type	Compulsory	Compulsory \(			ective			
Objectives	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.							
Content	The module is based on practical examples in occupational safety introduced. The following topics are particularly relevant:  1) Basic terms of occupational safety  2) Risk factors  3) Accident prevention procedures  4) Health protection  5) Fire and explosion protection							
Prerequisites								
Coordinator								
Lecturer(s)	DiplIng. J. KUN	DiplIng. J. KUNTZE, Arş. Gör. Dr. Ö. F. AYDIN						
Assistant(s)								
Work Placement	<u></u>							
Recommended or Required Reading								
Books / Lecture Notes	"Praxishandbuch Arbeitssicherheit: Rechtliche und technische Grundlagen, Praktische Umsetzung, 60 Checklisten", Christian Mag. (FH) Bayer und Andrea Mag. Schwarz-Hausmann MBA LL.M							
Other Sources	Lecture Notes							
Additional Course Materi	al							
Documents								
Assignments								
Exams								
<b>Course Composition</b>								
Mathematics und Basic Sciences	%							



Engineering		30	%		
Engineering De	sign		%		
<b>Social Sciences</b>			%		
<b>Educational Sci</b>	ences		%		
Natural Science	S	30	%		
Health Sciences			%		
Expert Knowled	lge	10	%		
Assessment					
Activ	vity	Cou	Percentage (%)		
Midterm Exam		1		40	
Quiz					
Assignments					
Attendance	ance				
Recitations					
Projects					
Final Exam		1	60		
		Total	100		
<b>ECTS Points</b>	and Work L	oad			
Activ	vity	Count	Duration	Work Load (Hours)	
Activ Lectures	vity	Count 14	Duration 2	Work Load (Hours) 28	
	vity				
Lectures Self-Study Assignments		14	2	28	
Lectures Self-Study		14	2	28	
Lectures Self-Study Assignments Presentation / S		14	2	28	
Lectures Self-Study Assignments Presentation / S Preparation		14 14	2 2	28 28	
Lectures Self-Study Assignments Presentation / S Preparation Midterm Exam		14 14	2 2	28 28	
Lectures Self-Study Assignments Presentation / S Preparation Midterm Exam Recitations		14 14	2 2	28 28	
Lectures Self-Study Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory		14 14	2 2	28 28	
Lectures Self-Study Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory Projects		14 14 14	2 2 3	28 28 3	
Lectures Self-Study Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory Projects		14 14 1	2 2 3 3	28 28 3	
Lectures Self-Study Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory Projects	eminar	14 14 1	2 2 3 Total Work Load	28 28 3 62	
Lectures Self-Study Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory Projects Final Exam	eminar  tcomes  Students gai	14 14 14 1 1 1 ECTS Points an understanding of the b	2 2 3 3 Total Work Load ints(Total Work Load / Hour) oasic terms relating to occup	28 28 3 3 62 2	
Lectures Self-Study Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory Projects Final Exam  Learning Ou	tcomes Students gai	14 14 14 14 1 1 1 ECTS Points an understanding of the beer and the managerial staff	2 2 3 3 Total Work Load ints(Total Work Load / Hour) basic terms relating to occup f.	28 28 3 3 62 2	
Lectures Self-Study Assignments Presentation / S Preparation Midterm Exam Recitations Laboratory Projects Final Exam  Learning Ou	tcomes Students gai	14 14 14 1 1 1 ECTS Points an understanding of the b	2 2 3 3 Total Work Load ints(Total Work Load / Hour) basic terms relating to occup f.	28 28 3 3 62 2	



4							
5							
6							
7							
8							
9							
10							
11							
12							
Weekly Conto	ent						
1	Introduction to Legal Basics, work safety organization, accident preconditions, risk-factors						
2	Risk avoidance, avoidance hierarchy, machine safety manipulation, Machine directive 2006/42/EC, standardisation: cable colours, pipe colours, electrical installation zones.						
3	Skin, sample danger factors, mechanical dangers, TS EN ISO 7010 warnings mechanical dangers, mechanical designs avoiding squeeze EN 349.						
4	Forklifts, traffic separation, labelling & communication.						
5	Free moving material, internal logistics, electrical factors, IP protection, RCD (FI Schutzschalter).						
6	Principles electric protection, electric competencies D-TR, 5 electric safety rules, work in increased electric risk environment, choosing electric tools, plugs & sockets, obligatory electric safety check intervals, loop impedance Zs & triggering fuses.						
7	Noise & vibration factors.						
8	Thermal & climatic factors.						
9	Midterm Exam						
10	Radiation factors: Ionization Radiation, Laser radiation, Hazardous materials 1.						
11	Illumination.						
12	Hazardous Materials 2.						
13	Ladders, Scaffolds.						
14	Fire Protection.						
15							
Contribution	of Learning	Outcomes to	Program O	bjectives(1-5)			
	P1	P2	Р3	P4	P5	P6	P7
1				5	3		5
2				5	3		5
3							
4							



5							
6							
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=5727							
Compiled by:		Dr. Ömer Faruk Aydın					
Date of Compila	tion:	17.05.2022					