

Course Details									
Code				Acad	Academic Year			Semester	
ISG001				4	4			7	
Title				Т	Α	L	ECTS		
Occupational Safety and Health I				2	0	0	2		
				I					
Language	German								
Level	Undergraduate	Х	Graduate			Postgra	duate		
Department / Program	Energy Science and Te	echnology							
Forms of Teaching and Learning	Face-to-face								
Course Type	Compulsory			El	ective			х	
Objectives	Basic theoretical knowledge in the field of occupational health and safety (OHS) and fundamental obligations outlined in the legislation are taught. The aim is to provide information on the causes and consequences of workplace accidents and occupational diseases, as well as methods to prevent them.								
Content	The conceptual framework of occupational health and safety (OHS), national and international standards, and essential information about the causes, consequences, and prevention of workplace accidents and occupational diseases are covered. Fundamental regulations in OHS legislation, case studies, and Supreme Court rulings are also examined.								
Prerequisites	None								
Coordinator	Joachim Kuntze								
Lecturer(s)	Joachim Kuntze								
Assistant(s)									
Work Placement	None								
Recommended or Required R	leading								
Books / Lecture Notes	Yılmaz, F., "İş Sağlığı ve Güvenliği Ders Notları" Yelekçi, M., "İşçi Sağlığı-İş Güvenliği İş Emniyeti" Esin, A., ESİN "İş Sağlığı ve Güvenliği" Çelebi, U.B., "Tersanelerde İş Sağlığı ve Güvenliği Ders Notları"								
Other Sources	Yılmaz, F., "İş Sağlığı ve Güvenliği Ders Notları" Yelekçi, M., "İşçi Sağlığı-İş Güvenliği İş Emniyeti" Esin, A., ESİN "İş Sağlığı ve Güvenliği" Çelebi, U.B., "Tersanelerde İş Sağlığı ve Güvenliği Ders Notları"								
Additional Course Material									
Documents									
Assignments									
Exams	1 Midterm + 1 Final								
Course Composition									



Mathematics and Basic Sciences		%					
Engineering		%					
Engineering Design		%					
Social Sciences		%					
Educational Sciences		%					
Natural Sciences		%					
Health Sciences		%					
Expert Knowledge	100	%					
Assessment							
Activity	Count	Percentage (%)					
Midterm Exam	1	40					
0:-							

Midterm Exam	1	40
Quiz		
Assignments		
Attendance		
Recitations		
Projects		
Final Exam	1	60
	Total	100

ECTS Points and Work Load							
Activity	Count	Duration	Work Load (Hours)				
Lectures	14	2	28				
Self-Study	12	2	24				
Assignments							
Presentation / Seminar Preparation							
Midterm Exam	1	2	2				
Recitations							
Laboratory							
Projects							
Final Exam	1	2	2				
	56						

	ECTS Points (Total Work Load / Hour)	2			
Learning Outcomes					
1	Students will be able to define the fundamental concepts of occupational health and safety (OHS), interpret national and international regulations, and develop preventive measures by analyzing the causes of workplace accidents and occupational diseases.				
2	Students will analyze the causes of workplace accidents and occupational dis necessary measures to prevent them.	eases and identify the			



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3	Students will understand risk assessment, preventive measures, and the concept of safety culture, and they will gain the skills to apply this culture in the field of occupational health and safety.
4	Students will analyze the causes of workplace accidents in the shipbuilding industry and determine the necessary measures to prevent such accidents.
5	Students will understand the responsibilities of engineers in terms of occupational safety and acquire the knowledge and skills to effectively fulfill these responsibilities.
Weekly Conter	ıt
1	Conceptual framework, definition, and scope of Occupational Health and Safety (OHS).
2	The economic impact of workplace accidents and occupational diseases, and the importance of OHS for businesses
3	Analysis of problematic areas and sectors in terms of OHS in our country
4	Causes of workplace accidents and occupational diseases: physical, ergonomic, chemical, biological, personal, and psychosocial risks
5	Elements of the preventive OHS approach: Risk Assessment and Management, Ergonomic Measures, Organization of OHS Activities
6	Elements of the preventive OHS approach (continued): OHSAS 18001 Management System, Training, Regular Health Check-ups and Workplace Medical Services, OHS in Recruitment Processes
7	International standards and agreements in the field of OHS. Legislation related to OHS: OHS in laws
8	Midterm exam
9	Definitions, scope, and legal consequences of Worker, Employer, Employer Representative, Workplace, Subcontractor, Workplace Accident, and Occupational Disease
10	Regulations and directives related to OHS: Workplace Health and Safety Regulations
11	Regulations on Heavy and Dangerous Work, Training on OHS, and Workplace Health and Safety Units and Joint Health and Safety Units
12	Responsibilities of Employers and Employer Representatives (engineers and OHS specialists) in cases of workplace accidents and occupational diseases – Case studies
13	Analysis of statistics related to workplace accidents and occupational diseases, common accidents and diseases, and preventive measures
14	Examination of Supreme Court decisions related to workplace accidents
15	Examination of Supreme Court decisions related to workplace accidents
16	Final exam

Contribution of Learning Outcomes to Program Objectives (1-5)									
	P1	P2	P3	P4	P5	P6	P7	P8	P9
1	5	5	5	5	5	5	5	5	5
2	5	5	5	5	5	5	5	5	5
3	5	5	5	5	5	5	5	5	5
4	5	5	5	5	5	5	5	5	5
5	5	5	5	5	5	5	5	5	5
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=5706									
Compiled by:	Res. Asst. Anıl Can Duman								
Date of Compilation:	24.01.2024								

