

**School of Engineering and Natural Sciences / Industrial Engineering (English)**

**2023 - 2024 Academic Year**

**OCCUPATIONAL HEALTH and SAFETY I**

**Syllabus**

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
OCCUPATIONAL HEALTH and SAFETY I	İGV4111400	Fall Semester	2+0	2	2
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	English				
<b>Course Level</b>	First Cycle (Bachelor's Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Assoc.Prof. Atakan MANGIR				
<b>Name of Lecturer(s)</b>	Assist.Prof. Işık Ateş KIRAL				
<b>Assistant(s)</b>					
<b>Aim</b>	This course covers topics related to workplace safety and health, encompassing areas such as occupational health and safety culture, the national occupational health and safety system, legal frameworks, responsibilities of employers in providing safety services, concepts of occupational accidents and diseases along with associated expenses. Additionally, it will provide an overview of subjects like risk factors affecting safety, factors related to individuals and organizations, and the documentation required for occupational health and safety. Throughout the course, students will delve into safety and health concerns across different types of occupations. Moreover, this course will focus on the Occupational Health and Safety Approach, providing students with an understanding of the historical evolution of Occupational Health and Safety on both global and Turkish fronts. It will delve into fundamental concepts of Labor Law, encompassing topics like employment contracts, working hours, entitlement to breaks, and vacation rights. Within the course, international regulations developed by OSHA will also be examined.				
<b>Course Content</b>	This course contains; Orientation,Introduction,Accident Causes - (1),Accident Causes - (2),Accident Causation Theories - (1),Accident Causation Theories - (2),The Role of Parties,Safety Law and Regulations in Türkiye - (1),Safety Law and Regulations in Türkiye - (2),Safety Law and Regulations in Türkiye - (3),Cost of Accidents - (1),Cost of Accidents - (2),General Outlook of Occupational Health and Safety in Türkiye - (1),General Outlook of Occupational Health and Safety in Türkiye - (2).				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
Define occupational health and safety.			10, 13, 14, 16, 9	A	
Explain the purpose of occupational health and safety.			10, 13, 14, 16, 9	A	
Infer the historical development of occupational health and safety before, during and after the industrial revolution.			10, 13, 14, 16, 9	A	
Define the causes of accidents.			10, 13, 14, 16, 9	A	
Relate the theories related to accident causation.			10, 13, 14, 16, 9	A	
Specify the roles of each party about safety.			10, 13, 14, 16, 9	A	
Implement the provisions of the law related to construction safety and health in Türkiye.			10, 13, 14, 16, 9	A	
Define the law related to construction safety and health in other countries.			10, 13, 14, 16, 9	A	
<b>Teaching Methods</b>	10: Discussion Method, 13: Case Study Method, 14: Self Study Method, 16: Question - Answer Technique, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Orientation	Previewing Lecture Notes			
2	Introduction	Previewing Lecture Notes			
3	Accident Causes - (1)	Previewing Lecture Notes			
4	Accident Causes - (2)	Previewing Lecture Notes			
5	Accident Causation Theories - (1)	Previewing Lecture Notes			
6	Accident Causation Theories - (2)	Previewing Lecture Notes			
7	The Role of Parties	Previewing Lecture Notes			
8	Safety Law and Regulations in Türkiye - (1)	Previewing Lecture Notes			
9	Safety Law and Regulations in Türkiye - (2)	Previewing Lecture Notes			
10	Safety Law and Regulations in Türkiye - (3)	Previewing Lecture Notes			
11	Cost of Accidents - (1)	Previewing Lecture Notes			
12	Cost of Accidents - (2)	Previewing Lecture Notes			
13	General Outlook of Occupational Health and Safety in Türkiye - (1)	Previewing Lecture Notes			
14	General Outlook of Occupational Health and Safety in Türkiye - (2)	Previewing Lecture Notes			
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		30			
General Exam		70			
<b>Resources</b>					
Goetsch, D. L. (2015). Occupational safety and health for technologists. Pearson Education Limited. Lecture Notes.					