

School of Engineering and Natural Sciences / Computer Engineering (English)

2023 - 2024 Academic Year

OCCUPATIONAL HEALTH and SAFETY I

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
OCCUPATIONAL HEALTH and SAFETY I	İGV4111400	Fall Semester	2+0	2	2
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Required				
Course Coordinator	Assoc.Prof. Atakan MANGIR				
Name of Lecturer(s)	Assist.Prof. Işık Ateş KIRAL				
Assistant(s)					
Aim	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.				
Course Content	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 Turkiye - (1),Safety Law and Regulations in Turkiye - (2),Safety Law and Regulations in Turkiye - (3),Cost of Accidents - (1),Cost of Accidents - (2),General Outlook of Occupational Health and Safety in Turkiye - (1),General Outlook of Occupational Health and Safety in Turkiye - (2).				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
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 Turkiye.			10, 13, 14, 16, 9	A	
Define the law related to construction safety and health in other countries.			10, 13, 14, 16, 9	A	
Teaching Methods	10: Discussion Method, 13: Case Study Method, 14: Self Study Method, 16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
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 Turkiye - (1)	Previewing Lecture Notes			
9	Safety Law and Regulations in Turkiye - (2)	Previewing Lecture Notes			
10	Safety Law and Regulations in Turkiye - (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 Turkiye - (1)	Previewing Lecture Notes			
14	General Outlook of Occupational Health and Safety in Turkiye - (2)	Previewing Lecture Notes			
Evaluation Methods		Weight(%)			
Midterm Exam		30			
General Exam		70			
Resources					
Goetsch, D. L. (2015). Occupational safety and health for technologists. Pearson Education Limited. Lecture Notes.					