

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

2023 - 2024 Academic Year

OCCUPATIONAL HEALTH and SAFETY II

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
OCCUPATIONAL HEALTH and SAFETY II	İGV4211500	Spring 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 aims to provide participants with a comprehensive knowledge of workplace safety hazards and equip them with the skills and strategies needed to prevent and mitigate these hazards. By combining theoretical understanding with practical applications, participants will be prepared to establish and maintain a culture of safety in their workplaces. This course is designed to provide participants with in-depth knowledge of workplace hazards and the preventive measures to ensure a safe and secure working environment. Participants will learn to identify, assess, and mitigate various workplace risks and promote a culture of safety within their organizations.				
Course Content	This course contains; Orientation,Introduction,Safety Training and Education,Mechanical Hazards and Machine Safeguarding,Falling, Impact, Acceleration, Lifting, and Vision Hazards with Appropriate PPE,Hazards of Temperature Extremes,Pressure Hazards,Electrical Hazards,Fire Hazards and Life Safety - (1),Fire Hazards and Life Safety - (2),Noise and Vibration Hazards - (1),Noise and Vibration Hazards - (2),Industrial Hygiene and Confined Spaces - (1),Industrial Hygiene and Confined Spaces - (2).				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Explain the significance of safety training and its contribution to hazard prevention.			10, 13, 14, 16, 9	A	
Describe the principles and techniques of machine safeguarding for injury prevention.			10, 13, 14, 16, 9	A	
Recognize and assess risks related to falling, impact, acceleration, lifting, and vision hazards.			10, 13, 14, 16, 9	A	
Implement strategies for managing temperature-related risks in the workplace.			10, 13, 14, 16, 9	A	
Outline safety measures and best practices for handling pressure-related risks.			10, 13, 14, 16, 9	A	
Demonstrate knowledge of safe electrical work practices.			10, 13, 14, 16, 9	A	
Explain the importance of life safety measures in the event of a fire.			10, 13, 14, 16, 9	A	
Understand the risks associated with confined spaces and the procedures for safe entry and work.			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	Safety Training and Education	Previewing Lecture Notes			
4	Mechanical Hazards and Machine Safeguarding	Previewing Lecture Notes			
5	Falling, Impact, Acceleration, Lifting, and Vision Hazards with Appropriate PPE	Previewing Lecture Notes			
6	Hazards of Temperature Extremes	Previewing Lecture Notes			
7	Pressure Hazards	Previewing Lecture Notes			
8	Electrical Hazards	Previewing Lecture Notes			
9	Fire Hazards and Life Safety - (1)	Previewing Lecture Notes			
10	Fire Hazards and Life Safety - (2)	Previewing Lecture Notes			
11	Noise and Vibration Hazards - (1)	Previewing Lecture Notes			
12	Noise and Vibration Hazards - (2)	Previewing Lecture Notes			
13	Industrial Hygiene and Confined Spaces - (1)	Previewing Lecture Notes			
14	Industrial Hygiene and Confined Spaces - (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.