



COURSE INFORMATION FORM

Course Name	Course Code
OCCUPATIONAL HEALTH AND SAFETY I	151911208

Semester	Number of Course Hours per Week		ECTS
	Theory	Practice	
1	2	0	2

Course Category (Credit)				
Basic Sciences	Engineering Sciences	Design	General Education	Social
			√	

Course Language	Course Level	Course Type
Turkish	Undergraduate	Compulsory

Prerequisite(s) if any	
Objectives of the Course	Teach the methods of prevention of occupational accidents and diseases in the workplace.
Short Course Content	Occupational healthy and safety definition, importance, historical development and basic concepts of the subject, Occupational safety culture, OHS legislation, Hazard sources and classification, Occupational accidents, Occupational diseases, Impact on employees of the work environment (physical, chemical, psychosocial, etc. factors), Basic Occupational safety in workplaces, Risk assessment, Health and safety signs Personal protective Equipment (PPE), Fire, The relevant legislation

Learning Outcomes of the Course	Contributed PO(s)	Teaching Methods *	Measuring Methods **
1 To improve the physical conditions of the workplace, develop alternative solutions and solving.	PO 6	1	A
2 Potential risks in the workplace, assessment and development of solutions to protect human health	PO 11	1	A
3			
4			
5			
6			
7			
8			

***Teaching Methods** 1:Expression, 2:Discussion, 3:Experiment, 4:Simulation, 5:Question-Answer, 6:Tutorial, 7:Observation, 8:Case Study, 9:Technical Visit, 10:Trouble/Problem Solving, 11:Individual Work, 12:Team/Group Work, 13:Brain Storm, 14:Project Design / Management, 15:Report Preparation and/or Presentation

****Measuring Methods** A:Exam, B:Quiz, C:Oral Exam, D:Homework, E:Report, F:Article Examination, G:Presentation, I:Experimental Skill, J:Project Observation, K:Class Attendance; L:Jury Exam

Main Textbook	1. Kahya, E., 2022, İş Güvenliği , ESOGÜ Yayın No :246, Eskişehir. 2. 6331 Sayılı İş Sağlığı ve Güvenliği Kanunu
Supporting References	1. Yiğit, A., İş Güvenliği , 2013, Dora basım-Yayın Dağıtım Ltd. Şti, Bursa 2. Bayır, M. ve Ergül, M., 2006, İş Güvenliği ve Risk Değerlendirme Uygulamaları , Bursa. 3. Dizdar, E.N., 2008, İş Güvenliği, 4.Baskı, Murathan Yayınevi, Trabzon. 4. Esin, A., 2006, Yeni Mevzuatın Işığında İş Sağlığı ve Güvenliği, TMMO MMO Yayın No:MMO/363/2, Ankara.
Necessary Course Material	Computer, projection equipment, personal safety equipment

Course Schedule	
1	Course scope, execution, evaluation Occupational Safety (defines, importance, etc.)
2	Occupational Safety Culture
3	OHS legislation (law No:6331)
4	OHS legislation (law No: 6331)
5	Occupational accidents (agents, type, statistics) and basic safety precautions
6	Occupational accidents (agents, type, statistics) and basic safety precautions
7	Occupational diseases
8	Mid-Term Exam
9	Basic safety rules in workplaces.
10	Risk Factors
11	Risk Factors
12	Risk Assessment
13	Risk Assessment & Health and safety signs
14	Personal Protective Equipment (PPE)
15	Fire
16,17	Final Exam

Calculation of Course Workload			
Activities	Number	Time (Hour)	Total Workload (Hour)
Course Time (number of course hours per week)	14	2	28
Classroom Studying Time (review, reinforcing, prestudy,...)			
Homework			
Quiz Exam			
Studying for Quiz Exam			
Oral exam			
Studying for Oral Exam			
Report (Preparation and presentation time included)			
Project (Preparation and presentation time included)			
Presentation (Preparation time included)			
Mid-Term Exam	1	1	1
Studying for Mid-Term Exam	1	10	10
Final Exam	1	1	1
Studying for Final Exam	1	15	15
Total workload			55
Total workload / 30			1.8
Course ECTS Credit			2.0

Evaluation	
Activity Type	%
Mid-term	40
Quiz	
Homework	
Bir öge seçin.	
Bir öge seçin.	
Final Exam	60
Total	100

RELATIONSHIP BETWEEN THE COURSE LEARNING OUTCOMES AND THE PROGRAM OUTCOMES (PO) (5: Very high, 4: High, 3: Middle, 2: Low, 1: Very low)		
NO	PROGRAM OUTCOME	Contribution
1	To possess sufficient knowledge in mathematics, science, and engineering subjects related to Metallurgical and Materials Engineering; the ability to apply theoretical and practical knowledge in these areas to model and solve engineering problems.	2
2	The ability to identify, define, formulate, and solve complex engineering problems by selecting and applying appropriate analysis and modeling methods.	1
3	The ability to design a complex system, process, device, or product under realistic constraints and conditions to meet specific requirements by applying modern design methods.	1
4	The ability to develop, select, and use modern techniques and tools necessary for engineering applications encountered as a Metallurgical and Materials Engineer; the ability to effectively use information technology.	1
5	The ability to design experiments, conduct experiments, collect data, analyze results, and interpret findings for the investigation of engineering problems.	2
6	The ability to work effectively individually, as well as within disciplinary and interdisciplinary teams.	5
7	The ability to communicate effectively in Turkish, both verbally and in writing; knowledge of at least one foreign language.	2
8	The awareness of the necessity for lifelong learning; the ability to access information, follow developments in science and technology, and continuously renew oneself.	3
9	Awareness of professional and ethical responsibility.	3
10	Knowledge about business practices such as project management, risk management, and change management; awareness of entrepreneurship, innovation, and sustainable development.	2
11	Knowledge about the universal and societal impacts of engineering applications on health, environment, and safety; awareness of the legal consequences of engineering solutions.	5
12	Awareness of quality consciousness and sustainability in material selection, product development, and production processes in engineering applications; awareness of quality control.	2
13	The ability to confidently approach problems encountered in engineering applications.	2

LECTUTER(S)			
Prepared by	Yaşar KESER		
Signature(s)			

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