

Course Code	Course Name	Teorical	Practice	Laboratory	Credits	ECTS
ES411	OCCUPATIONAL HEALTH AND SAFETY I	2.00	0.00	0.00	3.00	3.00
Course Detail						
Course Language	: English					
Qualification Degree	: Bachelor					
Course Type	: Compulsory					
Preconditions	: Not					
Objectives of the Course	: Expose students to the regulatory and professional aspects of occupational safety and health. Law and ethics are stressed throughout the course. Engineering skills are reinforced by requiring students to apply basic engineering principles to safety related problems.					
Course Contents	: Basic definitions (Hazard, Risk, Accident, Incident), risk recognition, laws and regulations, emergencies at workplaces, accident causations					
Recommended or Required Reading	: Roger L. Brauer (2006) "Safety and Health for Engineers" Second Edition, John Wiley & Sons. Clifton A. Ericson, II (2015) "Hazard Analysis Techniques for System Safety" Second Edition, John Wiley & Sons.					
Planned Learning Activities and Teaching Methods	: Presentations					
Recommended Optional Programme Components	: Attention to current legislations in Turkey					
Instructors	: Inst. Dr. Özge Erbaş Melis					
Instructor's Assistants	: N/A					
Presentation Of Course	: Formal					
En Son Güncelleme Tarihi:	: 8/4/2023 2:37:01 PM					

Course Outcomes

Upon the completion of this course a student :

- 1 To learn fundamental aspects of Occupational Safety and Health
- 2 Risk recognition, accident causation
- 3 Learn Turkish Occupational Safety and Health Laws
- 4 Action plans for Fire and other emergencies
- 5 Understanding of environmental risk elements

Preconditions

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Weekly Contents

	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods	Course Learning Outcomes
1.Week	*Introduction to Occupational Health and Safety					
2.Week	*Injury and Illness Statistics, Record Keeping and Reporting					
3.Week	*Occupational Health and Safety Law No. 6331					
4.Week	*Ergonomics					
5.Week	*Anthropometry, Antropometric Design: Design Approaches					
6.Week	*Manual Material Handling, Biomechanics					
7.Week	*Work Accidents And Case Examples					
8.Week	*Midterm					
9.Week	*Workplace Safety Signs and Signals: Signboards, Acoustic, Hand, and Verbal Signals					
10.Week	*Emergencies at Workplaces					
11.Week	*Fire Safety					
12.Week	*Safety Factor, Fail-Safe Designs, Unsafe Acts and Unsafe Conditions, Accident Causation					
13.Week	*Hazard Control					
14.Week	*Review					

Assesment Methods %

1 Mdterms : 40.000

2 Final : 60.000

ECTS Workload			
Activities	Count	Time(Hour)	Sum of Workload
Vize / Midterms	1	2.00	2.00
Final / Final	1	2.00	2.00
Ara Sınav Hazırlık / Preparation for midterm	1	25.00	25.00
Final Sınavı Hazırlık / Preparation for final	1	25.00	25.00
Teorik Ders Anlatım / Theoretical Lecturing	15	2.00	30.00
			Total : 84.00
			Sum of Workload / 30 (Hour) : 3
			ECTS : 3.00

Program And OutcomeRelation											
	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11
L.O. 1	0	0	0	0	0	0	0	0	5	0	5
L.O. 2	0	0	0	0	0	0	0	0	5	0	5
L.O. 3	0	0	0	0	0	0	0	0	5	0	5
L.O. 4	0	0	0	0	0	0	0	0	5	0	5
L.O. 5	0	0	0	0	0	0	0	0	5	0	5