

Course Code	Course Name	Teorical	Practice	Laboratory	Credits	ECTS
ES412	OCCUPATIONAL HEALTH AND SAFETY II	2.00	0.00	0.00	3.00	3.00
Course Detail						
<b>Course Language</b>	: English					
<b>Qualification Degree</b>	: Bachelor					
<b>Course Type</b>	: Compulsory					
<b>Preconditions</b>	: Not					
<b>Objectives of the Course</b>	: 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.					
<b>Course Contents</b>	: Risk assessment methods					
<b>Recommended or Required Reading</b>	: 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.					
<b>Planned Learning Activities and Teaching Methods</b>	: Presentations					
<b>Recommended Optional Programme Components</b>	: Attention to current legislations in Turkey					
<b>Instructors</b>	: Inst. Dr. Özge Erbaş Melis					
<b>Instructor's Assistants</b>	: N/A					
<b>Presentation Of Course</b>	: Formal					
<b>En Son Güncelleme Tarihi:</b>	:					

## Course Outcomes

## Upon the completion of this course a student :

- 1 To learn fundamental aspects of Occupational Safety and Health
- 2 Design work systems in terms of physical, cognitive and organizational elements
- 3 To learn human physiology, anatomy, and also obtain knowledge about human limitations, capacities, characteristics and use this knowledge in designs
- 4 Learn some common risk assessment methods
- 5 Understanding of risk elements and address some issues regarding safety

## Preconditions

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## Weekly Contents

	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods	Course Learning Outcomes
1.Week	*Strategic Environment of Occupational Health and Safety					
2.Week	*Environmental Stressors: Heat and Cold					
3.Week	*Environmental Stressors: Noise					
4.Week	*Environmental Stressors: Vibration					
5.Week	*Environmental Stressors: Illumination					
6.Week	*Environmental Stressors: Indoor Air Quality					
7.Week	*Walking and Working Surfaces: Sliding, Tipping, Falling					
8.Week	*Midterm					
9.Week	*Walking and Working Surfaces					
10.Week	*Shift work – Sleep and Biological Rhythms					
11.Week	*Shift work – Shift work design, Stress and workload					
12.Week	*Hazard Analysis Techniques					
13.Week	*Other important topics					
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