



ESOGÜ Electrical-Electronics Engineering Department

COURSE CODE: 15122XXXX **COURSE TITLE:** Fundamentals of Occupational Health and Safety

Semester	Weekly Hours		COURSE			
	Theoretical	Practical	Credits	ECTS	Type	Language
4	2	0	2	2	Compulsory (X) Elective ()	Turkish () English (X)
Write the credit (for non-credit courses weekly hours) below (If necessary distribute the credits.).						
Math and Basic Science			Electrical Engineering [mark (Ö) if there is high design content]		General Education	Humanities
()						
Assessment			THEORETICAL-PRACTICAL COURSES			LABORATORY COURSES
			Type	Number	%	Activity Type
Midterm			Midterm	1	40	Quiz
			Quiz			Lab performance
			Homework			Report
			Project			Oral exam
			Other (Laboratory)			Other (.....)
Final				1	60	
Makeup exam (Oral/Written)						
Prerequisites						
Brief content of the course			Definition of occupational safety , occupational accidents, occupational diseases, occupational safety in workplaces, Risk assessment, Guards, Fire, the relevant legislation			
Objectives of the course			Teach the methods of prevention of occupational accidents and diseases in the workplace.			
Contribution of the course towards professional education			Knowing the possible precautions against accidents and occupational diseases in the workplace to protect human health and improve the efficiency of labor			
Outcomes of the course			1. To improve the physical conditions of the workplace, develop alternative solutions and solving. 2. Design of the Workplace conditions (noise, heat, dust, etc.), taking measurements, analyzing the results and interpretation. 3. Potential risks in the workplace, assessment and development of solutions to protect human health			
Textbook of the course			Benjamin O. Alli “Fundamental principles of Occupational Health and Safety”, ILO, 2008			
Other reference books			1. Kahya, E., 2014, İş Güvenliği, ESOGÜ Yayın No :246, Eskişehir. 2. Yiğit, A., İş Güvenliği, 2013, Dora basım-Yayın Dağıtım Ltd. Şti, Bursa			
Required material for the course						

WEEKLY PLAN OF THE COURSE	
Week	Topics
1	Course scope, execution, evaluation. Occupational Safety (defines, importance, etc.)
2	Occupational Safety Culture
3	Work Accidents
4	Work Accidents
5	Occupational diseases
6	Factors Affecting Business Environment
7	Basic security rules in workplaces.
8	Midterm Exam
9	Midterm Exam
10	Basic security rules in workplaces.
11	Risk Assessment
12	Protectors
13	Fire
14	Occupational Safety Law
15,16	Term Exam week

NO	OUTCOMES OF THE PROGRAMME	4	3	2	1
1	Adequate knowledge of mathematics, science and Electrical and Electronics Engineering; ability to practice theoretical and practical knowledge of these areas into modeling and solving problems of Electrical and Electronic Engineering				X
2	Ability to identify, formulate and solve complex engineering problems in Electrical and Electronics Engineering and related fields, having skills to select and apply appropriate analysis and modelling methods for this purpose.				X
3	Having skills to design a complex system, process, equipment or product that should work under realistic conditions and constraints and satisfy specific requirements; ability to apply modern design methods for this purpose.				X
4	Having skills to develop, select and apply modern techniques and tools needed for applications in Electrical and Electronics Engineering, skills to use information technology effectively.				X
5	Skills to design and conduct tests, collect data, analyze and interpret the results for investigation of problems in Electrical and Electronics Engineering				X
6	Ability to function effectively as an individual and as a member of teams within the discipline and in multidiscipline areas.				X
7	Communicating effectively in oral and written form both in Turkish and English. Effective report writing and understanding written reports, preparing design and manufacturing reports, making effective presentations, skills to give and receive clear and concise instructions.				X
8	Awareness of the necessity of lifelong learning, access to information, monitoring developments in science and technology and the ability to self-renewing		X		
9	Understanding of professional and ethical responsibility	X			X
10	Information on project management, change management and risk management practices in business, awareness on entrepreneurship, innovation and sustainable development.		X		
11	Information about universal and social effects of engineering applications on health, safety and environment; awareness of the legal consequences of engineering solutions.	X			X

Scale for assessing the contribution of the course to the program outcomes:

4: High

3: Medium

2: Low

1:None

Name of Instructor(s): Prof. Dr. Gökhan ÇINAR

Signature(s):

Date: