



ESOGÜ Electrical-Electronics Engineering Department

COURSE CODE: 151226377 - 151246377 COURSE TITLE: Fundamentals of

Occupational Health and Safety

Semester	Weekly Hours		COURSE			
	Theoretical	Practical	Credits	ECTS	Type	Language
6	2	0	2	3	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 (√) if there is high design content]		General Education		Humanities
()						
Assessment		THEORETICAL-PRACTICAL COURSES			LABORATORY COURSES	
Midterm	Type	Number	%	Activity Type	Number	%
	Midterm	1	40	Quiz		
	Quiz			Lab performance		
	Homework			Report		
	Project			Oral exam		
Other (.....)			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 Electronic 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 complex engineering problems in Electrical and Electronic Engineering and related fields, for this purpose having skills to formulate, select and apply appropriate methods.				X
3	Having skills to apply modern design methods to design a complex system, equipment or product that should work under realistic conditions and constraints and satisfy specific requirements concerning the Electrical and Electronic Engineering.				X
4	Having skills to develop, select and apply modern techniques and tools needed for Electrical and Electronic Engineering applications, skills to use information technology effectively.				X
5	Skills to design and conduct tests, collect data, analyze results, and interpret data for the experimental investigation of Electrical and Electronic Engineering problems				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.				
8	Awareness of the necessity of lifelong learning, access to information, monitoring developments in science and technology and the ability to self-renewing		X		X
9	Understanding of professional and ethical responsibility	X			
10	Information on project management, change management and risk management practices, awareness on entrepreneurship, innovation and sustainable development.		X		
11	Information about universal and societal effects of engineering applications on health, safety and environment; awareness of the legal consequences of engineering solutions.	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. Osman PARLAKTUNA

Signature(s):

Date: