



HASAN KALYONCU UNIVERSITY
Faculty of Engineering
Course Description Form

COURSE: Occupational Health And Safety					
CODE: FE202		SEMESTER: SPRING			
LANGUAGE: ENGLISH		TYPE: COMPULSORY			
PRE-REQUISITES: - CO-REQUISITES: -		THEORY	PRACTICAL	CREDIT	ECTS
WEEKLY HOURS:		2	0	2	2

CONTENT OF THE COURSE:

Risk groups of employees. Occupational health, importance of occupational health outlook, occupational health basics, occupational disease, the definition of work-related diseases-causes and prevention, occupational diseases related to chemical, physical and biological risks of accidents at work, occupational health criteria and application areas, Health the right to security, safety culture concept

OBJECTIVE OF THE COURSE:

Protect workers from occupational accidents and occupational diseases in the workplace acquiring the knowledge and skills to take safety precautions. Ability to take security measures against occupational diseases. May be at work by understanding the causes of accidents and injuries to take the necessary measures. Take precautions to make the necessary interventions for fires that may arise in the workplace learn about business law concerned about occupational health and safety legislation.

WEEKLY SCHEDULE

Week	Topics
1	Chapter 1: Introduction and General Information
2	Chapter 2: Basic concepts and history of occupational health and safety
3	Chapter 3: Duties and responsibilities of occupational safety specialist
4	Chapter 4: Duties and responsibilities of occupational physician
5	Chapter 5: Concepts of risk, danger, primary, secondary and tertiary protection
6	Chapter 5: Concepts of risk, danger, primary, secondary and tertiary protection
7	Chapter 6: Evaluation of occupational accidents
8	
9	Midterm Week
10	Chapter 7: Evaluation of occupational diseases
11	
12	Chapter 8: Occupational health and safety in construction sector
13	Chapter 9: Occupational health and safety practices in the workplace
14	Chapter 10: Biological and chemical risk factors

TEXTBOOK:

Lecture Notes

REFERENCE BOOKS

• Occupational Health and Safety Management: A Practical Approach, Third Edition Charles D. Reese

EVALUATION SYSTEM:		
IN-TERM STUDIES	QUANTITY	PERCENTAGE (%)
Midterm Exam	1	30
Homework	1	20
Laboratory works		
Quiz		
Final Exam	1	50
TOTAL	3	100
CONTRIBUTION OF INTERM STUDIES TO OVERALL GRADE	2	50
CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE	1	50
TOTAL	3	100

COURSE CATEGORY:	PERCENTAGE (%)
Mathematics and Basic Sciences	
Engineering	70
Engineering Design	
Social Sciences	30

TABLE OF ECTS / WORKLOAD:			
Activities	QUANTITY	Duration (Hour)	Total Workload
Course Duration	13	2	26
Hours for off-the-classroom study (Pre-study, practice)	14	2	28
Laboratory works			
Mid-term	1	2	2
Final examination	1	2	2
Homework	1	2	2
Quiz			
Total Work Load			60
Total Work Load / 30			2
ECTS Credit of the Course			2

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
LO1	0	0	0	0	0	0	0	3	0	0	0
LO2	0	0	0	0	0	0	0	0	3	0	0
LO3	0	0	0	0	0	0	0	3	0	0	3
LO4	0	0	0	0	0	0	0	0	0	3	3
LO5	0	0	0	0	0	0	0	0	0	0	3
	PO: Program Outcomes LO: Learning Outcomes Values: 0: None 1: Low 2: Medium 3: High										

INSTRUCTOR(S):	Assist.Prof.Dr.Muhammet ÇINAR
FORM PREPARATION DATE:	22.05.2019

LEARNING OUTCOMES OF THE COURSE:	PROGRAM OUTCOMES:
<p>LO1: Will be able to comprehend basic concepts and historical development of occupational health and safety.</p> <p>LO2: Will be able to comprehend the duties and responsibilities of occupational physician and occupational safety specialist in the workplace.</p> <p>LO3: Will be able to comprehend the concepts of risk, danger, primary, secondary and tertiary protection.</p> <p>LO4: Will be able to have knowledge about physical, chemical, biological and psychosocial risks.</p> <p>LO5: Will be able to evaluate occupational health and safety legislation in the workplace</p>	<p>PO1: Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied knowledge in these areas in complex engineering problems.</p> <p>PO2: Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.</p> <p>PO3: Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.</p> <p>PO4: Ability to devise, select, and use modern techniques and tools needed for analyzing and solving complex problems encountered in engineering practice; ability to employ information technologies effectively.</p> <p>PO5: Ability to design and conduct experiments, gather data, analyze and interpret results for investigating complex engineering problems or discipline specific research questions.</p> <p>PO6: Ability to work efficiently in intra-disciplinary and multi-disciplinary teams; ability to work individually.</p> <p>PO7: Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language; ability to write effective reports and comprehend written reports, prepare design and production reports, make effective presentations, and give and receive clear and intelligible instructions.</p> <p>PO8: Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.</p> <p>PO9: Consciousness to behave according to ethical principles and professional and ethical responsibility; knowledge on standards used in engineering practice.</p> <p>PO10: Knowledge about business life practices such as project management, risk management, and change management; awareness in entrepreneurship, innovation; knowledge about sustainable development.</p> <p>PO11: Knowledge about the global and social effects of engineering practices on health, environment, and safety, and contemporary issues of the century reflected into the field of engineering; awareness of the legal consequences of engineering solutions.</p>