T.C. ESKİŞEHİR OSMANGAZİ UNIVERSITY
ARCHITECTURE AND ENGINEERING FACULTY
MECHANICAL ENGINEERING DEPARTMENT

COURSE INFORMATION FORM

SEMESTER	Fall

COURSE CODE	151817645 151837645	COURSE NAME	Occupational Health and Safety in the Sector

SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	Practice	Laboratory	Credit	ECTS	TYPE	LANGUAGE
7	2	0	0	2	4	COMPULSORY (X) ELECTIVE ( )	Turkish

COURSE CATAGORY			
Basic Science	Basic Engineering	Mechanical Engineering Subjects [if it contains considerable design, mark with (√)]	Social Science
		100%	

ASSESSMENT CRITERIA			
	Evaluation Type	Quantity	%
MID-TERM	1st Mid-Term	1	50
	2nd Mid-Term		
	Quiz		
	Homework		
	Project		
	Report		
	Others (……)		
FINAL EXAM		1	50

PREREQUIEITE(S)	
COURSE DESCRIPTION	Occupational Health and Safety-Legal Legislation, OSH in Lifting Vehicles, OSH in Pressure Vessels, OSH in Welding jobs, OSH in the Design, Manufacture and Use of Work Equipment, OSH in Closed Areas and Ventilation, Fire and Fire Protection, OSH in Motor Vehicles, Work Accidents and Occupational Diseases
COURSE OBJECTIVES	To gain the consciousness of job health and safety in the sector to the students of mechanical engineering.
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION	Mechanical engineering students, to teach the risks of the engineers working in the field of engineers and the work accidents and occupational diseases they may cause.
COURSE OUTCOMES	1. Concepts of the importance of students' occupational health and safety 2. Planning activities to prevent the occupational diseases and work incidents before they arrive in the workplace 3. Development of workplace management skills on the basis of occupational health and safety principles
TEXTBOOK	Goetsch, D.L., (2010), Occupational Safety and Health for Technologists, Engineers and Managers, 8th Edition, Pearson.
OTHER REFERENCES	
TOOLS AND EQUIPMENTS REQUIRED	

COURSE SYLLABUS	
WEEK	**TOPICS**
1	Occupational Health and Safety - General
2	Occupational Health and Safety - legislation
3	Occupational Health and Safety in Lifting Vehicles
4	Occupational Health and Safety in Pressure Vessels
5	Occupational Health and Safety in welding jobs
6	Occupational Health and Safety in the Design, Manufacture and Use of Work Equipment
7	Occupational Health and Safety in Closed Areas and Ventilation
8	Mid-Term Examination
9	Mid-Term Examination
10	Fire and Fire Protection
11	Occupational Health and Safety in Motor Vehicles
12	Risk Management and Evaluation
13	Work Accidents and Occupational Diseases
14	Seminar
15,16	Final Exam

NO	PROGRAM OUTCOMES	3	2	1
1	Sufficient knowledge of engineering subjects related with mathematics, science and own branch; an ability to apply theoretical and practical knowledge on solving and modeling of engineering problems.	**X**		
2	Ability to determine, define, formulate and solve complex engineering problems; for that purpose an ability to select and use convenient analytical and experimental methods.	**X**		
3	Ability to design a complex system, a component and/or an engineering process under real life constrains or conditions, defined by environmental, economical and political problems; for that purpose an ability to apply modern design methods.	**X**		
4	Ability to develop, select and use modern methods and tools required for engineering applications; ability to effective use of information technologies.	**X**		
5	In order to investigate engineering problems; ability to set up and conduct experiments and ability to analyze and interpretation of experimental results.	**X**		
6	Ability to work effectively in inner or multi-disciplinary teams; proficiency of interdependence.		**X**	
7	Ability to communicate in written and oral forms in Turkish/English; proficiency at least one foreign language.		**X**	
8	Awareness of life-long learning; ability to reach information; follow developments in science and technology and continuous self-improvement.			**X**
9	Understanding of professional and ethical issues and taking responsibility			**X**
10	Awareness of project, risk and change management; awareness of entrepreneurship, innovativeness and sustainable development.			**X**
11	Knowledge of actual problems and effects of engineering applications on health, environment and security in global and social scale; an awareness of juridical results of engineering solutions.		**X**	
1:None. **2**:Partially contribution. **3**: Completely contribution.				

Prepared by: Doç. Dr. Mesut TEKKALMAZ **Date:**

Signature(s):