

Alanya Alaaddin Keykubat University | Rafet Kayış Faculty of Engineering  
 Mechanical Engineering Department  
 2022-2023 Spring Semester  
**SYLLABUS**

<b>Code/Name</b>	ISG 402 / Occupational Health and Safety II
<b>Type</b>	Required
<b>Credit/ECTS</b>	1/1
<b>Hour per Week</b>	1 (1+0+0)
<b>Level/Year</b>	Undergraduate/4
<b>Semester</b>	Spring
<b>Classroom</b>	Online
<b>Content</b>	Establishing workplace, regulations of the workplace and its attachments. Fire, electricity, first aid, and rescue measures. Personal protective equipment. Safety and health symbols. Emergency plan. Work safety and health at design stage. Usage of working equipment. Health and safety standards. Heavy and high-risk industries. Regulations dealing with occupational work safety.
<b>Prerequisites</b>	-
<b>Textbooks</b>	<p><b><u>Primary</u></b>                  DL Goetsch, <i>Occupational Safety and Health for Technologists, Engineers, and Managers</i>, 8<sup>th</sup> edition, Pearson Education Limited, 2015.</p> <p><b><u>Supplementary</u></b>                  RH Friis, <i>Occupational Health and Safety for the 21<sup>st</sup> Century</i>, 7<sup>th</sup> edition, Jones &amp; Bartlett Learning, 2016.                  FR Spellman, <i>Occupational Safety and Health Simplified for the Industrial Workplace</i>, Bernan Press, 2016.</p>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• To define and understand the basic terminology used in the field of occupational safety and health and apply it appropriately.</li> <li>• To identify and describe the organization of regulatory agencies that deal with issues of occupational safety and health, environmental health, and risk management</li> <li>• To interpret and apply legislative requirements, industry standards, and best practices in a variety of workplaces</li> <li>• To determine appropriate hazard controls following the hierarchy of controls</li> <li>• To analyze the effects of workplace exposures, injuries and illnesses, fatalities, and the methods to prevent incidents</li> </ul>
<b>Course Outcomes</b>	In this course you will be able to: CO1 Describe the main current issues in the field of OHS CO2 Describe hazards associated with the conditions in the workplace CO3 State possible effects of the work environment on health and give examples of major occupational diseases CO4 Describe the personal, economic, and societal impacts of work-related injuries CO5 State risk factors for common occupational injuries and deaths CO6 Describe approaches to injury prevention
<b>Weekly Schedule of Topics</b>	
W	Topic
1	Introduction to OHS II: An overview and comparison of OHS I and OHS II
2	Laws and regulations: The OHS act, standards, and liability
3	Laws and regulations: Workers' compensation
4	Laws and regulations: Accident investigation and reporting
5	Hazard assessment, prevention, and control: Mechanical hazards and machine safeguarding

6	Hazard assessment, prevention, and control: Temperature extremes, pressure, and electrical hazards
7	Hazard assessment, prevention, and control: Fire hazards and life safety, radiation hazards
8	Hazard assessment, prevention, and control: Industrial hygiene and confined spaces, noise and vibration hazards
9	Hazard assessment, prevention, and control: Physical hazards in the workplace
10	Examples of major occupational diseases
11	Work-related injuries and fatalities
12	Management of safety and health: Preparing for emergencies
13	Management of safety and health: Ethics and safety
14	Hazard analysis/prevention and safety management

**Professional Contribution** Utilize both theoretical and technical knowledge in occupational health and safety from the point of view of laws and regulations, management of health and safety, and occupational diseases.

#### Contribution to Program Outcomes\*

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	4	2	1	2	0	1	2	3	2	3	2
CO2	4	2	1	2	0	1	2	3	2	3	2
CO3	4	2	1	2	0	1	2	3	2	3	2
CO4	4	2	1	2	0	1	2	3	2	3	2

\* Contribution Level | 0: None | 1: Very Low | 2: Low | 3: Medium | 4: High | 5: Very High

**Special Conditions** The consequence of violation of the attendance rule is to receive a grade of **NA**.

#### Requirements

<b>Evaluation</b>	Midterm Exam	40%
	Final Exam	60%
	Total	100%

#### Rubric

**Course Policy**

1. You must attend at least 70% of the sessions including add-drop period.
2. Be in the class on time.
3. English should always be used to communicate with one another.
4. Mobile phone should be switched off and put away during the class.
5. You cannot talk to your friends during class no matter what the subject is.

**Cheating & Plagiarism**

- Copying or letting someone to copy your work on exams, assignments, or reports is cheating.
- Cutting and pasting text, figures and tables from the web sources or any other electronic source is plagiarism.
- The consequence of academic dishonesty is to receive a grade of **F** for the course.

#### Instructor

Name/Surname	Alparslan Topcu	Email	alparslan.topcu@alanya.edu.tr
Room	D-002	Office Hours	Wednesday : 10:30 – 11:30 Friday : 10:30 – 11:30

Prepared by Alparslan Topcu on February 04, 2023