

Alanya Alaaddin Keykubat University | Rafet Kayış Faculty of Engineering
 Mechanical Engineering Department
 2024-2025 Fall Semester
SYLLABUS

Code/Name	ISG 401 / Occupational Health and Safety I
Type	Required
Credit/ECTS	2/2
Hour per Week	2 (2+0+0)
Level/Year	Undergraduate/4
Semester	Fall
Classroom	WBA
Content	Safe work practices as well as how to identify, prevent and correct problems associated with safety and health in work environment. Occupational health and safety management system. Industrial hygiene. Risk management. Root-cause analysis of accidents and cost of accidents. Occupational diseases and work-related diseases. Case studies.
Prerequisites	NA
Textbooks	<p>Primary DL Goetsch, <i>Occupational Safety and Health for Technologists, Engineers, and Managers</i>, 8th edition, Pearson Education Limited, 2015.</p> <p>Supplementary RH Friis, <i>Occupational Health and Safety for the 21st Century</i>, 7th edition, Jones & Bartlett Learning, 2016. FR Spellman, <i>Occupational Safety and Health Simplified for the Industrial Workplace</i>, Bernan Press, 2016.</p>
Objectives	<ul style="list-style-type: none"> • To define and understand the basic terminology used in the field of OHS. • To identify and describe the organization of regulatory agencies that deal with issues of OHS, environmental health, and risk management • To interpret and apply legislative requirements, industry standards, and best practices in a variety of workplaces
Course Outcomes	In this course you will be able to: C01 Describe the main current issues in the field of OHS C02 Describe hazards in the workplace and safe work practices C03 State major occupational diseases and possible effects of the work environment on health C04 State risk factors for common occupational injuries and deaths C05 Analyze the effects of workplace exposures, injuries and illnesses, and fatalities

Weekly Schedule of Topics

W	Topic
1	Introduction to OHS: An overview
2	Laws and regulations: The OHS act, standards, and liability
3	Employer's and workers' compensation
4	Accident investigation and reporting
5	Hazard assessment, prevention, and control
6	Mechanical, temperature extremes, pressure, and electrical hazards
7	Fire hazards and life safety, radiation hazards
8	Industrial hygiene and confined spaces, noise and vibration hazards
9	Major occupational diseases
10	Work-related injuries and fatalities

11	Management of safety and health: Ethics and safety
12	Hazard analysis/prevention and safety management
13	Turkish law for OHS
14	Detailed investigation of OHS law and other procedures

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	2	3	4	1	2	2	3
CO2	4	2	1	2	2	3	4	1	2	2	3
CO3	4	2	1	2	2	3	4	1	2	2	3
CO4	4	2	1	2	2	3	4	1	2	2	3
CO5	4	2	1	2	2	3	4	1	2	2	3

* 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 NA

Evaluation

Midterm Exam	40%
Final Exam	60%
Total	100%

Rubric NA

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	NA	Email	WBA
Room	WBA	Office Hours	WBA