

SYLLABUS

Vocational School of Higher Education

Course Code	Course Title		Credits	ECTS Value	
ISG 219	Industrial and Environmental Health		2-1-3	6	
Prerequisite Courses:	None				
Course Language:	Turkish		Course Delivery Mode:	Face-To-Face	
Course Type and Level:	Compulsory / 2nd Year / Fall Semester				
Instructor's Title, Name, and Surname		Course Hours	Office Hours	Contact	
Lecturer Adem BİLGİN		3	Wednesday 13:00-15:00	adembilgin@cag.edu.tr	
Course Coordinator:	Lecturer Adem BİLGİN				
Course Objectives					
Course Learning Outcomes	Upon successful completion of this course, the student will be able to;			Relations	
				Program Outcomes	Net Contribution
	1	Defines and explains the fundamental concepts and principles of environmental health.	1,3	5,4	
	2	Evaluates risk communication and risk perception.	1,4,5	5,5	
	3	Interprets the effects of solid, liquid, and radioactive waste, as well as water, air, and soil pollution on human health, and applies appropriate waste management methods.	1,2,7	5,5	
	4	Plans and implements necessary safety measures by utilizing basic knowledge of fire safety.	1,4,6	5,5	
	5	Analyzes potential problems arising from the interaction between environment and humans, and develops solution-oriented proposals.	3,4,7	5	
Course Content:	This course covers the relationship between environment and health, as well as the fundamental issues of environmental and industrial health. It addresses risk factors and waste management, with a particular focus on fire and safety systems in workplaces. The course includes an examination of fire protection regulations, fire organization, and fire prevention methods. Students will study the structure of combustion and the process of burning, flammable substances and their characteristics such as flash point, ignition point, burning rate, and the fire triangle. Topics also include combustion energy, classification of combustible materials, and safety measures in workplaces, workshops, and warehouses. Furthermore, the course explores building structures and safety distances, storage arrangements, fire extinguishing systems, and portable fire extinguishers. Legal regulations regarding fire safety are analyzed, and students are guided in the formation and training of workplace fire safety teams.				
Course Schedule (Weekly Plan)					
Week	Topic		Preparation		Teaching and Learning Strategies
1	Review of the course syllabus and general overview of the semester		None		Introduction, review of the course syllabus, and expectation mapping
2	Definitions, concepts, and fundamental principles in environmental health		Reading lecture notes		Structured lecture delivery
3	Relationship between environment and health		Searching for current articles and relevant news examples		Structured lecture delivery and article review

4	Water pollution	Researching examples of pollution and student presentations	Structured lecture delivery, peer teaching, and group work
5	Air pollution	Reviewing and presenting current statistics (student presentation)	Structured lecture delivery, peer teaching, and group work
6	Noise pollution	Observing sources of noise and student presentations	Structured lecture delivery, peer teaching, and group work
7	Soil pollution	Student presentation	Structured lecture delivery, peer teaching, and group work
8	Midterm Exam		Written exam
9	Midterm Exam		Written exam
10	Waste and energy resources	Listing types of waste	Structured lecture delivery
11	General definitions related to fire and types of fires	Examining a fire scenario	Structured lecture delivery and video viewing
12	Causes of fire outbreaks	Bringing a case example	Structured lecture delivery, discussion, and group work
13	Fire drill	Preparation for the drill	Structured lecture delivery and hands-on activity
14	Fire extinguishing systems	Research on firefighting equipment	Structured lecture delivery
15	Fire safety measures	Review of legislation	Structured lecture delivery
16	General definitions related to fire	Reading lecture notes	Structured lecture delivery
17	Final Exam		Written exam
18	Final Exam		Written exam

Course Resources

Textbook:	ADA, Sefer-BAYSAL, Z.Nurdan (2017), Çeşitli Boyutlarıyla Çevre Eğitimi, Nobel Akademi Yay., 1.bs
Recommended References:	

Course Assessment and Evaluation

Activities	Number	Percentile	Notes
Midterm Exam	1	%30	
Presentation	1	%20	
Final	1	%50	

ECTS Table

Content	Number	Hours	Total
Course Duration	14	3	42
Out-of-Class Study	14	3	42
Presentation	1	30	30
Midterm Exam (Midterm Exam Duration + Midterm Exam Preparation)	1	25	25
Final Exam (Final Exam Duration + Final Exam Preparation)	1	30	30
Total:			169
Total / 30:			169÷30≈5,6=6
ECTS Credit:			6

**REPUBLIC OF TURKEY
ÇAĞ UNIVERSITY VOCATIONAL SCHOOL
INDUSTRIAL AND ENVIRONMENTAL HEALTH COURSE – ASSIGNMENT
PREPARATION GUIDE**

Assignment Presentation

- The assignment presentation will be conducted using PowerPoint (100 points).
- **Presentation Dates:** October 15, 2025; October 22, 2025; November 5, 2025
Note: Presentation dates will be determined in class by drawing lots.

Presentation Criteria:

- Assignment Content – 20 points
- Presentation Skills – 20 points
- Clarity and Understandability – 20 points
- Time Management – 20 points
- Use of Visuals/Documents – 20 points