

COURSE SYLLABUS
Vocational School

Course Code	Course Title	Credits (T–P–L)	ECTS	
ISG-108	Occupational Diseases and Occupational Health	2-1-3	6	
Prerequisites	None			
Language of Instruction	Turkish	Mode of Delivery	Face to face	
Course Type and Level	Compulsory / 1st Year / Spring Semester			
Instructor		Class Hours	Office Hours	İletişim
	Lecturer Adem BİLGİN	3	Monday 10:00-16:00	adembilgin@cag.edu.tr
Course Coordinator	Lecturer Adem BİLGİN			
Learning Outcomes				
Course Learning Outcomes	Upon successful completion of this course, the student will be able to:		Relations	
			Program Outcomes	Contribution
	1	Recall the concept, definitions, and classifications of occupational diseases.	1,2	4,5
	2	Explain the effects of physical, chemical, biological, ergonomic, and psychosocial factors on health.	1,2	5,5
	3	Conduct a risk assessment for occupational diseases in a sample workplace.	1,2	4,5
	4	Analyze measurement/monitoring reports (noise, vibration, dust, etc.).	1,2	5,5
	5	Develop improvement plans within the scope of occupational hygiene and ergonomics.	1,2	5,5
	6	Evaluate the adequacy of health surveillance processes (pre-employment, periodic examinations).	1,2	5,5
7	Assess the cause-effect relationship of various occupational diseases.	1,2	5,5	
Course Objective and Description	<p>This course covers the definition, classification, causes, and prevention of occupational diseases within the scope of occupational health and safety. Students are taught occupational diseases arising from chemical, physical, biological, and ergonomic factors, their clinical symptoms, and diagnostic methods. The course also examines workplace risk assessment, planning and implementation of preventive measures, reporting obligations, and legal requirements. By the end of the course, students will have gained knowledge and skills in the early recognition and prevention of occupational diseases, as well as in managing health risks in the workplace.</p>			
Course Contents: (Weekly Course Plan)				
Week	Topic	Preparation	Teaching Method and Techniques	
1	Introduction: Definition, scope, and importance of occupational diseases	Review course syllabus	Lecture, Q&A	

2	Historical development and the status of occupational diseases in Türkiye	Short reading on basic concepts	Discussion, Presentation
3	Occupational health and safety legislation (Law No. 6331, Law No. 5510, SGK notifications)	Review legislation	Lecture, Case Study
4	Hierarchy of prevention and risk assessment in occupational diseases	Research sample cases	Case Analysis, Brainstorming
5	Physical factors I: Noise, vibration, thermal comfort	Research cases related to physical factors	Lecture, Practical Example
6	Effective Method of Preventing Occupational Diseases: The Role of the Occupational Safety and Health Specialist in Preventive Activities Presentation by the Occupational Safety and Health Specialist at Mersin Academy Hospital	Preparing Questions for the Speaker	Lecture, Discussion
7	Chemical factors: Toxic substances, SDS, TWA/STEL values	Review sample SDS	Demonstration, Practical Work
8	Midterm Exam		
9	Midterm Exam		
10	Biological factors: Infectious diseases, risks in the health sector	Read related articles	Lecture, Group Discussion
11	Ergonomic risks: Musculoskeletal disorders	Observe environments (home, mall, school, etc.)	Discussion, Role Play
12	Psychosocial factors: Work stress, shift work, mobbing	Research international statistics	Group Work, Drama
13	Occupational hygiene and environmental measurements (dust, gas, noise, etc.)	Research occupational hygiene studies	Lecture, Practical Example
14	Health surveillance: Pre-employment and periodic examinations	Review lecture notes	Lecture, Q&A
15	Student presentations	Prepare for presentation	Group Work, Q&A
16	Sectoral examples: Health, mining, construction, agriculture	Choose a sector and conduct research on occupational diseases	Case Analysis, Comparison
17	Final Exam		
18	Final Exam		

Course Resources

Course Book	Yıldız, A. N., & Sandal, A. (Eds.). (2020). Occupational Health and Safety: Occupational Diseases. Hacettepe University Publications.
Recommended Resources	Balci, M., Soner, B., Aydoğan, B., & Yener, A. (2020). Work Accidents and Occupational Diseases. Yetkin Publishing. ISBN 978-605-05-0548-1.

Assessment and Evaluation

Activity	Number	Contribution (%)	Notes
Midterm Exam	1	20	Written exam
Research Assignment	1	15	Individual Report and Presentation
Presentation	1	15	Individual Report and Presentation
Final Exam	1	50	Comprehensive written exam

AKTS Tablosu

Activity	Number	Hours	Total
Class Duration	14	3	42
Out-of-Class Study	14	5	70
Assignments	1	10	10
Presentation	1	6	6
Participation / In-Class Activities	1	14	14
Midterm Exam (Exam + Preparation)	1	18	18
Final Exam (Exam + Preparation)	1	28	28
Total			180
Total / 30			180 / 30
ECTS Credit			6

EVALUATION RUBRICS
Presentation Evaluation Rubric (0–100 Points)

Criterion	Description	Score
1. Content Mastery and Accuracy	Was the theoretical background of the topic explained correctly? Was the relationship between the disease/sector clearly established? Are the information and data current and scientifically accurate?	30 Points
2. Case Analysis and Cause–Effect Relationship	Instead of only providing definitions, was a cause–effect relationship established (Exposure → Disease)? Was the topic concretized with case examples (real events)?	25 Points
3. Visual Materials and Design	Are the slides readable? Were relevant photos, graphs, or X-rays used effectively? Does the design support the presentation or distract from it?	15 Points
4. Presentation Skills and Time Management	Were voice tone, eye contact, and body language used effectively? Was the presentation delivered rather than read from paper? Was the allocated time (e.g., 10 minutes) respected?	15 Points
5. Q&A and Interaction	Was the presenter able to provide satisfactory and accurate answers to questions? Were they able to approach the topic critically?	15 Points

**** The evaluation criteria specified in the Vocational School Report Preparation Guide will be taken into consideration.**

Article Research and Legislation Reporting and Report Presentation Rubric (0–100 Points)

Criterion	Description	Score
1. Legislation and Technical Knowledge	Were the relevant regulations (e.g., Law No. 6331), limit values (TWA/STEL), or technical standards used correctly with proper references?	20 Points
2. Research Scope	Was the topic researched in sufficient depth? Were reliable sources (books, articles, official reports) used? Is the work based on data rather than superficial internet information?	20 Points
3. Visual Materials and Design	Are the slides readable and well organized? Were relevant photos, graphs, or tables used effectively? Does the design support the presentation or distract from it?	10 Points
4. Public Speaking and Presentation Skills	Does the student demonstrate mastery of the topic, or do they rely on reading from paper? Were voice tone, eye contact, and body language used effectively? Was the allocated time used efficiently?	30 Points
5. Analysis, Interpretation, and Originality	Are the contents merely raw information, or has the student synthesized and interpreted the material in their own words? Are there original insights or solution suggestions?	10 Points
6. Report Organization and Writing	Does the report follow a clear introduction–development–conclusion structure? Are the headings organized? Are spelling rules and citation formats (e.g., APA) followed correctly?	10 Points

The article/research abstract will be presented in class. The presentation time is set at 20 minutes, and time management will be monitored accordingly. During the analysis and reporting phase:

- Attention should be paid to the assignment's submission format and deadline.
- Academic language should be used in the assignment.
- The assignment should be prepared within the framework of scientific ethics and should not contain plagiarism.
- The assignment should be handwritten with a ballpoint pen.
- The assignment report submission date is June 3, 2026.