



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Industrial Hygiene and Worker Health							
Course Code		OHS518		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		Students should be able to identify health-related hazards and risks in the workplace and take necessary hygiene measures							
Course Content		The physical factors (noise, heat, radiation, vibration, etc.), biological (microbes, bacteria, viruses, rickettsia, spirochetes etc.) encountered in the working environment and the health risks they create and the precautions to be taken to prevent them. Health risks created by chemical substances (gases, vapors, dusts, etc.) encountered in the working environment, measures to be taken to prevent them							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	Endüstri Sağlığı
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Week	Weekly Detailed Course Contents	
1	Theoretical	Hygiene Concept, Definition, Occupational Health Team and Priority
2	Theoretical	Recognition of Dangers and Risks in the Work Environment, Evaluation of Safety
3	Theoretical	Identification of Hazards: Biological Business Environment and Health Effects (Industrial Dermatoses, etc.)
4	Theoretical	Hazard Identification: Chemical Business Environment and Health Effects (Solvents etc.)
5	Theoretical	Hazards Identification: Physical Business Environment and Health Effects (Particles, Industrial Noise, Thermal Endpoints-Thermal Comfort, Ergonomics, Ionized Radiation, Non-ionized Radiation, etc.)
6	Theoretical	Industrial Toxicology and Evaluation Methods
7	Theoretical	Hazard Assessment, Microscopic Scale, Microbial Growth, Cross-Contamination
8	Intermediate Exam	Midterm Exam
9	Theoretical	Hazard Control: Methods, Industrial ventilation, General ventilation (Air sampling, Gas-vapor monitoring etc.)
10	Theoretical	Protection Mechanism of the Body: Useful Pathogens and so on.
11	Theoretical	Personal Protectors / Business Hygiene: Personal Hygiene, Effective Hand Wash Procedures
12	Theoretical	Handling Protectors / Business Hygiene: Hygiene of Tools, Materials, Protective Equipment
13	Theoretical	Investigation and Evaluation of Work Accidents, Occupational Diseases and Ways of Protection
14	Final Exam	Semester final exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Individual Work	14	1	0	14
Midterm Examination	1	7	1	8



Final Examination	1	10	1	11
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	To know the health risks of physical, biological and chemical substances encountered in working environment
2	Know and practice the measures to be taken to protect against these factors
3	Recognize personal protectors
4	Learns the definition of hazard
5	Learns the investigation of occupational accidents

### Programme Outcomes (*Occupational Safety and Health Interdisciplinary Master's Without Thesis*)

1	Sufficient knowledge accumulation in Mathematics, Physical Sciences and Occupational Health and Safety topics; the ability to implement theoretical and practical knowledge in these fields in order to solve and model Occupational Health and Safety problems.
2	The ability to detect, to identify, to formulate and to solve complicated problems in Occupational Health and Safety and related fields by choosing and implementing appropriate analysis methods.
4	The ability to improve, to choose, to use modern and technical tools required for Occupational Health and Safety applications and the ability to benefit from information technologies effectively.
5	The ability to design experiments so as to inspect Occupational Health and Safety problems, to carry out experiments, to gather data, to analyse results and to comment on results.
11	Information about effects of Occupational Health and Safety applications on health, environment and safety in universal and social extend; awareness about national and international legislative regulations and standards, awareness about legal conclusions of Occupational Health and Safety solutions.

### Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	3	4	4	4	3
P2	4	4	5	4	4
P4	5	5	4	5	4
P5	4	4	5	5	5
P11	5	5	4	4	4

