



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Ergonomics and System Security							
Course Code		OHS511		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		To give the necessary information to use ergonomics concept and its applications in working life.							
Course Content		Ergonomic design of workplaces, Ergonomic design of workplaces, Industrial society and ergonomics, human machine systems, ergonomic people, human work and characteristics, work organization, noise and vibration, human factors and job efficiency, Ergonomics and Job security relation, Climate, lighting, dust work place and arrangement							
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	Endüstriyel Ergonomi-Alaattin Sabancı
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Week	Weekly Detailed Course Contents	
1	Theoretical	Concept of ergonomics and emergence process
2	Theoretical	Concepts and explanations about ergonomics
3	Theoretical	General problems in workplace environments
4	Theoretical	Climate effects in workplace environments
5	Theoretical	Workplace environment and lighting
6	Theoretical	Noise and damage in business environment
7	Theoretical	Measures to be taken against noise in the workplace environment
8	Intermediate Exam	Midterm Exam
9	Theoretical	Vibration and radiation effects in the workplace
10	Theoretical	Biological risk factor in the workplace environment
11	Theoretical	System evaluation and business survey analysis
12	Theoretical	Human factor and psychosocial approach
13	Theoretical	Ergonomic and protective approaches
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	Makes environmental surveillance in line with Ergonomic principles at workplaces.
2	Know the ergonomic elements necessary for the health of employees in working environments.
3	Know that the elements affecting employees, such as environment, process and machine, should be arranged in such a way as to be appropriate for employees' health.



4	Know the importance of ergonomic approaches in preventing occupational accidents and occupational diseases.
5	Knowing that human health must be protected before production, as well as establishing a balance between health and productivity.

**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	4	3	3	3	3
P2	5	3	4	4	4
P4	4	4	4	5	5
P5	5	4	4	4	5
P11	5	4	5	5	5

