



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Machine and Equipment Information							
Course Code		İSP110		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		It is aimed to provide an overview of the most accurate analysis of mechanical problems encountered in industrial area businesses in terms of Worker Health and Work Safety.							
Course Content		Milling and Axles / Gear Wheels / Welding / Soldering / Rivet / Bolt Connections and Calculations / Pin and Perno Calculations / Ovens / Steam Boilers and Operation / Screening and Sorting Materials / Crushers, Mixers, Drilling Machines, Pumps, Compressors / Chimney Filters / Moving, Lifting, Towing, Pushing, Digging, Drilling, Cutting, Etching Machines and Tools.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study					
Name of Lecturer(s)		Lec. Nadir Savaş ÖTER							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Cahit Kurbanoğlu, Makina Bilgisi
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Week	Weekly Detailed Course Contents	
1	Theoretical	Mechanical properties of materials, steel, iron, other mechanical materials, plastic materials
2	Theoretical	Fasteners: welding, soldering, bonding, rivet connections
3	Theoretical	Bolt, shaft, hub, wedge, pin, perno connections.
4	Theoretical	Steam boiler operation
5	Theoretical	Hydraulic, thermal and nuclear power plants
6	Theoretical	Turning and turning lathe
7	Theoretical	Boring and milling
8	Intermediate Exam	midterm
9	Theoretical	Crushers, mixers, drilling machines, pumps and compressors
10	Theoretical	Chimney filters, beds, skids, couplings and concepts
11	Theoretical	Power and motion transmission elements: Gears and wheels. Belt and pulley mechanism
12	Theoretical	Control and automatic control technique
13	Theoretical	Pneumatic and hydraulic control
14	Theoretical	Numerically controlled workbenches and systems
15	Final Exam	final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	3	70
Final Examination	1	4	1	5
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Having basic knowledge of machinery and equipment
2	Having information about precautions related to worker health and safety originating from machine systems in enterprises



3	Having knowledge about the usage areas of machines and equipments and the risks they create
4	To have information about the working principle of machines
5	Having system knowledge

Programme Outcomes (*Occupational Safety and Health*)

1	.
2	.
3	.
4	.
5	.
6	.
7	.
8	.
9	.
10	.

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

	L1	L2	L3
P1	5	5	5
P2	5	5	5
P3	5	5	5
P4	5	5	5

