



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Factory Organization and Management							
Course Code		MKE157		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		It is aimed to give information about how to make the factory organization and how to operate the organization by coordinating the existing resources.							
Course Content		Introduction of factory and construction site main units, drawing of factory and construction site layout plans, supply and waste water treatment processes in factories, thermal process of factory process water and other fluids, introduction of factory compressed air systems, introduction of factory and construction site energy systems, introduction of dust and exhaust systems , Introducing factory energy systems, comparing sample factory and construction site layout plans and using Enterprise Resource Planning (ERP) in factories.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study					
Name of Lecturer(s)		Assoc. Prof. Ali Kemal ÇAKIR							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Factory Organization and Management Course notes
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Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction of factory and construction-site main units
2	Theoretical	Introduction of factory and construction site main units
3	Theoretical	Drawing of factory and construction site layout plans
4	Theoretical	Drawing of factory and construction site layout plans
5	Theoretical	Water supply and waste water treatment in factories
6	Theoretical	Thermal treatment of factory process water and other fluids
7	Theoretical	Introduction of factory compressed air systems
8	Intermediate Exam	Mid-term
9	Theoretical	Introduction of dust holding and exhaust systems
10	Theoretical	Introduction of factory energy systems
11	Theoretical	Examining sample factory and construction site layouts by comparing
12	Theoretical	Examining sample factory and construction site layouts by comparing
13	Theoretical	Enterprise Resource Planning (ERP) use in factories
14	Theoretical	Enterprise Resource Planning (ERP) use in factories.

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Assignment	5	2	2	20
Midterm Examination	1	11	1	12
Final Examination	1	11	1	12
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Gains knowledge of factory operation and construction site main units.
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2	Draws the plant operation and construction site layout plans.
3	Gains knowledge of thermal processes of factory process waters and other fluids.
4	Gains knowledge of factory and construction site energy systems.
5	Have knowledge about Enterprise Resource Planning (ERP) use in factories.

Programme Outcomes (Machinery)

1	To be able to know general properties and usage areas of industrial materials and make selection.
2	Design of machine elements.
3	To be able to make production using machining and welding machines without machining.
4	To be able to make measurement and quality control processes with machine tools for measuring and control equipment.
5	To be able to make necessary corrections in order to determine the mistakes by using the necessary non-destructive test methods in welded parts and to eliminate these mistakes.
6	Preventive measures to prevent the occurrence of these faults by preliminarily determining the faults that will occur in the machines as statistical data and to make necessary interventions in case of breakdown.
7	They can make drawings of work pieces on CAD station and apply them on CNC looms. Ability to operate and use CAD / CAM and AUTOCAD package programs.
8	To be able to transfer engineering science and technology to practice by making calculations in the direction of scientific principles.
9	It can repair the elements in pneumatic and hydraulic systems which are indispensable elements of automatic control systems and can regulate their work.
10	The student who is trained as a machine technician during the whole program knows that industrial task definition in the field of work is error finding, problem solving, decision making, planning of functions and activities and they can be achieved by aiming to acquire these characteristics.

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	2	3	3	3	3
P2	3	5	2	3	2
P3	2	5	4	3	5
P4	5	2	5	3	4
P5	4	4	2	3	3
P6	3	1	3	3	2
P7	2	2	2	2	5
P8	5	5	4	4	5
P9	5	4	5	3	3
P10	2	2	3	2	5

