



**AYDIN ADNAN MENDERES UNIVERSITY**  
**AYDIN VOCATIONAL SCHOOL**  
**MECHANICAL AND METAL TECHNOLOGY**  
**MACHINERY**  
**COURSE INFORMATION FORM**

Course Title	Mould Technology								
Course Code	MKE256	Course Level			Short Cycle (Associate's Degree)				
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	Teaching the production techniques by molding method.								
Course Content	Molding, Molding methods								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Case Study, Problem Solving								
Name of Lecturer(s)									

#### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	30
Final Examination	1	70

#### Recommended or Required Reading

1	Kalpı Teknolojisi ders notları
---	--------------------------------

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to Molding
2	Theoretical	Sheet Metal Molds
3	Theoretical	Sheet Metal Molds
4	Theoretical	Plastic Molds
5	Theoretical	Plastic Molds
6	Theoretical	Bending
7	Theoretical	Bending
8	Theoretical	Cutting
9	Intermediate Exam	Midterm Examination
10	Theoretical	Cutting
11	Theoretical	Pull
12	Theoretical	Volume
13	Theoretical	Design of Plaster Stepped Molds
14	Theoretical	Design of Plaster Stepped Molds
15	Theoretical	Other Shaping Methods
16	Final Exam	Final Examination

#### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	7	0	1	7
Project	5	0	2	10
Midterm Examination	1	0	1	1
Final Examination	1	0	1	1
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

\*25 hour workload is accepted as 1 ECTS

#### Learning Outcomes

1	Molding methods
---	-----------------



2	Molding calculations
3	Machining and assembly of drilling mold elements
4	Machining and assembly of fastening mold elements
5	Designs bending, cutting and drawing molds

### 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
P1	5	4
P2	5	4
P3	4	4
P4	4	3
P5	4	5
P6	4	5
P7	4	4
P8	5	4
P9	5	5
P10	5	4

