



**AYDIN ADNAN MENDERES UNIVERSITY**  
**AYDIN VOCATIONAL SCHOOL**  
**PROPERTY PROTECTION AND SECURITY**  
**PRIVATE SECURITY AND PROTECTION**  
**COURSE INFORMATION FORM**

Course Title	Basic Machine Knowledge								
Course Code	MKE180			Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Introduction of Basic Machines Giving the solution approach of the problems related to machine design Teaching basic machine subjects Developing the ability to work in teams								
Course Content	Historical development of machines, Professional ethics, Introduction to the work done by machine makers in general, Basic concepts in machine, Classification of machine elements in general, Simple Strength Calculations, Machine tools and their work.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study, Problem Solving								
Name of Lecturer(s)	Lec. Ali Kemal ÇAKIR								

#### Assessment Methods and Criteria

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

#### Recommended or Required Reading

1	Basic Machine Knowledge Course Notes
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Week	Weekly Detailed Course Contents	
1	Theoretical	Machining as a Profession.
2	Theoretical	Energy and Machinery. Dimensions, Units and Error
3	Theoretical	Unit analysis, unit transformations and related applications
4	Theoretical	Description of measurement and control issues, introduction of used measuring instruments
5	Theoretical	Caliper as dimension measuring instruments, micrometer and dial gauge Infinitives as instruments. Measure reading applications with caliper and micrometer
6	Theoretical	Connecting elements, welding connections, Solder connections, Bonding connections, Bolt connections
7	Theoretical	Professional and ethical responsibility explaining to have
8	Theoretical	National and international standards and quality organizations. Standard and Definition of quality.
9	Intermediate Exam	midterm
10	Theoretical	Entrepreneur and self-confidence of students explaining
11	Theoretical	Engineering service national and global have knowledge about the dimensions
12	Theoretical	Industrial rights, intellectual property rights, patent licensing
13	Theoretical	Science and technology policy
14	Theoretical	Machine Design
15	Theoretical	Visiting an industrial organization, Manufacturing



16	Final Exam	Final Exam
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**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	1	28
Assignment	5	0	3	15
Midterm Examination	1	3	1	4
Final Examination	1	2	1	3
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

\*25 hour workload is accepted as 1 ECTS

**Learning Outcomes**

1	Mathematics, science and engineering related fields sufficient knowledge of the issues; theoretical and apply practical knowledge to modeling engineering problems and ability to apply for solving.
2	Realistic complex system, process, device or product under certain conditions and conditions, ability to design in a way; modern design for this purpose the ability to apply methods.
3	Designing experiments to investigate engineering problems, conducting experiments, collecting data, analyzing results and interpretation skill
4	Awareness of the necessity of lifelong learning; information accessing, monitoring developments in science and technology; and self-renewal ability.
5	Awareness of professional and ethical responsibility
6	To introduce the basic level of material knowledge, measurement methods, machine parts and machine tools used in part production.

**Programme Outcomes (Private Security and Protection)**

1	Know the powers of private security
2	Know defense and attack techniques
3	To understand the security measures
4	Establishing Organizational Communication
5	To apply the basic principles of first aid
6	To be able to make threat assessment and risk management
7	Learn what the body language is and what needs to be considered to ensure effective communication.
8	Weapon information
9	Knows Environmental Health Management in Disasters
10	Knows the elements of crime
11	Prepare a security plan
12	To have necessary knowledge in the field of criminology
13	To be able to determine employee and employer relations
14	To have information about the types of terrorist attacks and the signs of the attacks
15	Evaluate new approaches in security studies
16	Show effective interventions in social activities
17	Search and rescue in case of emergency, conducting emergency studies, can manage the organization
18	Explain the basic elements of health and the factors affecting it.
19	Know the basic principles of survival

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

	L4
P1	2
P2	2
P3	2
P4	2
P5	2
P6	2
P7	2
P8	2



P9	2
P10	2
P11	2
P12	2
P13	2
P14	2
P15	2
P16	2
P17	2
P18	2
P19	2

