AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Basic Machine Knowledge								
Course Code	MKE180		Couse 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)	Assoc. Prof. Ali Kemal ÇAKIR								

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Basic Machine Knowledge Course Notes

Week	Weekly Detailed Course Contents	
1	Theoretical	Machining as a Profession.
2	Theoretical	Energy and Machinery. Dimensions, Units andError
3	Theoretical	Unit analysis, unittransformations and relatedapplications
4	Theoretical	Description of measurement and control issues,introduction of used measuring instruments
5	Theoretical	Caliper as dimension measuring instruments,micrometer and dial gaugeInfinitives as instruments.Measure reading applications with caliper and micrometer
6	Theoretical	Connecting elements, welding connections,Solder connections, Bondingconnections, Bolt connections
7	Theoretical	Professional and ethical responsibilityexplaining to have
8	Theoretical	National and international standards and qualityorganizations. Standard andDefinition of quality. (Midterm)
9	Theoretical	Entrepreneur and self-confidence of studentsexplaining
10	Theoretical	Engineering service national and globalhave knowledge about the dimensions
11	Theoretical	Industrial rights, intellectual property rights,patent licensing
12	Theoretical	Science and technology policy
13	Theoretical	Machine Design
14	Theoretical	Visiting an industrial organization,Manufacturing

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 *(Accounting and Tax Practices)*	
1	Being an individual who is respectful to his own values, fits ethical rules, investigates and examines environment, events, and takes lessons.
2	To have theoretical knowledge and to manage the process which will contribute to the solution of the various problems that may arise during the professional activity and to obtain the expected practical results in practice.
3	To have theoretical knowledge supported by textbooks with current information, application tools and other resources, and to be able to discuss using any kind of information related to this field.
4	Be able to apply and evaluate all the techniques that the accounting profession should have.
5	Ability to plan, implement and evaluate all activities (such as financial statements and financial statements, keeping accounts in a computer environment, etc.) performed in the business and finance world, accounting bureaus and tax-related institutions.
6	In the sector or institutions that it supports during its activities; to be able to interpret and evaluate data using the knowledge and skills gained in the field, to be able to recognize and analyze problems, and to be able to develop evidence-based solutions.
7	Ability to gain personality traits showing planning and decision making skills.
8	To be able to comprehend the importance of the developments of the business and financial world and the knowledge that they have in this direction, to be able to develop the concepts of creativity and creative thinking, to be able to realize the effects of professional activities in the applied fields.
9	To be able to evaluate and interpret the knowledge and skills gained in the professional field.
10	Be able to develop personality traits that develop environmental awareness, respect for differences, and adapt to different situations and social roles.
11	To be able to use communication techniques properly while maintaining human relations.
12	To be able to use information and communication technologies together with the computer software required by the professional field
13	To be able to inform related persons and institutions about the issues related to the field during the professional work, to be able to transmit suggestions of solutions to problems and problems in writing and orally.
14	To have sufficient consciousness about the universality of social rights, social justice, protection of quality culture and cultural values and environmental protection, occupational health and safety issues.

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

	L1
P14	3