



AYDIN ADNAN MENDERES UNIVERSITY 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)		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	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 (Garment Manufacturing Technology)

1	To be able to use theoretical and practical knowledge related to Garment Manufacturing Technology
2	To carry out brand management, marketing and promotional activities related to Garment Manufacturing Technology
3	Having the skills of data collection, research report preparation and presentation for the research, preparing the project
4	Being able to plan the processes / processes related to Garment Manufacturing Technology to meet the expectations of the sector, to be able to make business organization, production plan and control, prepare working instructions
5	To be able to determine textile raw materials and surface properties, to choose garment auxiliary materials, to be able to control materials
6	To be able to carry out steps of pattern preparation, grading, pattern layout preparation
7	To be able to use necessary equipments and machines for applications related to Garment Manufacturing Technology and to make adjustments and maintenance
8	To be able to use computer aided pattern and design programs, production applications in Garment Manufacturing Technology
9	Having the ability to manage and organize business by creating the idea of establishing a business in the field
10	To be able to create a model by applying technical drawings of clothing and basic arts education
11	To be able to realize basic sewing techniques, production stages of women's, men's and children's wear

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

	L1	L2	L3	L4	L5	L6
P3			2			
P4		2		2		
P7	2	2				4
P9		2		2	2	2

