



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Technology and Social Structure							
Course Code		MKE153		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	73 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		New technologies and latest developments will be provided to students.							
Course Content		Science and technology relations in past and present, the effects of science and technology on social change, the effects of contemporary scientific developments on life, space and aviation studies.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Lecture notes
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Week	Weekly Detailed Course Contents	
1	Theoretical	Science and technology relationship in past and present
2	Theoretical	Social change effects of science and technology
3	Theoretical	Bilim ve teknolojinin sosyal değişime etkileri
4	Theoretical	Common scientific heritage of mankind
5	Theoretical	Famous Turkish and foreign scientists
6	Theoretical	Famous Turkish and foreign scientists
7	Theoretical	Tissue and organ transplantation
8	Theoretical	The influence of contemporary scientific developments such as nano-technology, gene technology
9	Intermediate Exam	MIDTERM
10	Theoretical	The influence of contemporary scientific developments such as nano-technology, gene technology
11	Theoretical	Turkish Patent Institute
12	Theoretical	Copyright and patent rights
13	Theoretical	Copyright and patent rights
14	Theoretical	Space and aviation studies
15	Theoretical	Space and aviation studies
16	Final Exam	FINAL EXAM

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	5	0	3	15
Midterm Examination	1	0	1	1
Final Examination	1	0	1	1
Total Workload (Hours)				73
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Have knowledge about technological innovations
2	Have basic knowledge about the scientists



3	Learn patent and copyright concepts
4	Have knowledge about space and aviation
5	Have knowledge about the work of famous Turkish and foreign scientists

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

