



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Technical Textiles							
Course Code		TT113		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Definition, development and usage of technical textiles.							
Course Content		Care / Hygiene Products: Transport Technical Textiles Protective Technical Textiles Building and Construction Technical Textiles Industrial Technical Textiles geotextiles Agricultural Technical Texture production methods and usage areas.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Project Based Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Horrocks A.R., Anand S., "Handbook of Technical Textiles", The Textile Institute, 2004
2	Akalın M. "Teknik Tekstiller" Birsen Yayınevi 2010

Week	Weekly Detailed Course Contents	
1	Theoretical	Classification of technical textiles and market share
2	Theoretical	Classification of technical textiles and market share
3	Theoretical	Technical textiles used in the field of health
4	Theoretical	Technical drillings used in geological area
5	Theoretical	Technical textiles used in construction and construction
6	Theoretical	Technical textiles used in transportation
7	Theoretical	Technical textiles for industrial use
8	Intermediate Exam	Midterm, (evaluation of the assignments)
9	Theoretical	Technical textiles for protection
10	Theoretical	Technical textiles used in packaging
11	Theoretical	Technical textiles used in agriculture
12	Theoretical	Technical textiles for sports and leisure
13	Theoretical	Technical textiles used as garments and accessories
14	Theoretical	Environmentally friendly technical textiles and textile composites

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Midterm Examination	1	10	1	11
Final Examination	1	10	1	11
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	To give information about the concept and scope of technical textiles, to learn the basic application areas of technical textiles
2	To have knowledge about raw materials and production techniques used in technical textile production.
3	To have knowledge about applications of technical textiles
4	To have information about the location of technical textiles in Turkey
5	To have knowledge about the position of technical textiles in the world

Programme Outcomes (Mechatronics)

1	TECHNICAL FOREIGN LANGUAGE
2	BASICS OF MECHATRONICS
3	TECHNICAL DRAWING
4	DOING BASIC MECHANIC PROSESES
5	CHOOSE THE MATERIALS
6	DOING MECHANICAL SYSTEM DESIGN
7	SET UP A HYDRAULIC OR PNEUMATIC SYSTEMS
8	DOING COMPUTER AIDED MECHANICAL DESIGN
9	USING FLEXIBLE PRODUCING SYSTEMS
10	USING COMPUTER AIDED MACHINE TOOLS
11	DOING ELECTRICAL AND ELECTRONICAL
12	SET UP ELECTRICAL AND ELECTRONICAL CIRCUITS
13	SET UP LOGICAL CIRCUITS
14	DOING COMPUTER AIDED ELECTRONICAL CIRCUITS DESIGN
15	SET UP ELECTRICAL MOTORS
16	SET UP MICROCONTROLLER CIRCUITS
17	SET UP CONTROL SYSTEMS
18	COMMUNICATE CONTROL SYSTEMS
19	DOING INDUSTRIAL ROBOTIC PROGRAMMING AND MAINTENANCE
20	WRITING COMPUTER PROGRAMME
21	Ability to use the methods and techniques of career planning and discussing the effects of character traits on career preferences.
22	Ability to plan a career in their own profession.

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

	L3
P9	2

