



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Research Methods and Techniques							
Course Code		MTR251		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	76 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		In this lesson, students; research aims to gain proficiency.							
Course Content		Choosing Research Topics, Making Source Research, Evaluating Research Results, Transforming Research Results to Report, Presentation							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				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

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Week	Weekly Detailed Course Contents	
1	Theoretical	Featured Research Topics
2	Theoretical	Featured Research Topics
3	Theoretical	Making The Resource Survey
4	Theoretical	Making The Resource Survey
5	Theoretical	The Results Of The Evaluation Research
6	Theoretical	The Results Of The Evaluation Research
7	Theoretical	Report The Results Of Research Into Conversion
8	Theoretical	Report The Results Of Research Into Conversion
	Intermediate Exam	Midterm
9	Theoretical	Making A Presentation Preparation
10	Theoretical	Making A Presentation Preparation
11	Theoretical	Preparing for presentation
12	Theoretical	Preparing for presentation
13	Theoretical	Preparing for presentation
14	Theoretical	Making a presentation
15	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Lecture - Practice	14	0	1	14
Assignment	1	3	1	4
Term Project	2	10	2	24
Midterm Examination	1	9	1	10



Final Examination	1	9	1	10
Total Workload (Hours)				76
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Determining the scope of the research
2	Determining the details of the research topic
3	Editing research results
4	Writing the research
5	Preparing and presenting the research report

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 PNEUMATICSYSTEMS
8	DOING COMPUTER AIDED MECHANICAL DESIGN
9	USINGFLEXIBLE PRODUCING SYSTEMS
10	USINGCOMPUTER AIDEDMACHINE TOOLS
11	DOING ELECTRICAL AND ELECTRONICAL
12	SET UP ELECTRICAL AND ELECTRONICAL CIRCUITS
13	SET UP LOGICAL CIRCIUTS
14	DOING COMPUTER AIDED ELECTRONICAL CIRCUITSDESIGN
15	SET UP ELECTRICAL MOTORS
16	SET UP MICROCONTROLLER CIRCIUTS
17	SET UP CONTROL SYSTEMS
18	COMMUNICATE CONTROL SYSTEMS
19	DOING INDUSTRIAL ROBOTIC PROGRAMMINGAND 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

	L1	L2	L3	L4	L5
P2	5	5	5	5	5

