



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Research Methods and Techniques							
Course Code		İŞT215		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		This derste student; to gain proficiency in research.							
Course Content		Selecting research subjects, Performing resource research, Evaluating research results, Converting the results of the research report, Preparing presentation, Making presentations							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study					
Name of Lecturer(s)		Ins. Dilek GÜRCÜN, Lec. Aylin DİLEK							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Bilimsel Araştırma Yöntemi – Prof Dr. Niyazi KARASAR
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Week	Weekly Detailed Course Contents	
1	Theoretical	Choosing Research Topics
2	Theoretical	Choosing Research Topics
3	Theoretical	Choosing Research Topics
4	Theoretical	Do a Resource Survey
5	Theoretical	Do a Resource Survey
6	Theoretical	Do a Resource Survey
7	Theoretical	Evaluation of Research Results
8	Theoretical	Araştırma Sonuçlarını Değerlendirme
9	Intermediate Exam	midterm
10	Theoretical	Conversion of Research Results to Report
11	Theoretical	Conversion of Research Results to Report
12	Theoretical	Making a Presentation
13	Theoretical	Making a Presentation
14	Theoretical	Making Presentations
15	Theoretical	Making a Presentation
16	Final Exam	Final Examination

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	35	0	1	35
Midterm Examination	1	5	1	6
Final Examination	1	5	1	6
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Explain the basics of scientific research.
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2	Explain the types of scientific research.
3	Explain the ethical principles in scientific research.
4	Report the study.
5	Explain the rights and responsibilities of the researcher and the research participant.

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	2				
P8	1				
P10	1	1	1	1	1

