



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Scientific Research Methods							
Course Code		ORD658		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		scientific research techniques should be learned							
Course Content		scientific research techniques should be learned							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	bilimsel araştırma teknikleri, Şener BÜYÜKÖZTÜRK
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Week	Weekly Detailed Course Contents	
1	Theoretical	terms related to science
2	Theoretical	methods and doing scientific research
3	Theoretical	stages of scientific research
4	Theoretical	examination and planning research types
5	Theoretical	research techniques and problems
6	Theoretical	general and special problem solving
7	Theoretical	examination
8	Theoretical	importance of changes and problem
9	Theoretical	explaining of research models
10	Theoretical	information about universe and example
11	Theoretical	presentation of findings
12	Theoretical	examination of writing rules
13	Theoretical	ethic rules at scientific research
14	Theoretical	final exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Lecture - Practice	14	0	2	28
Midterm Examination	1	2	2	4
Final Examination	1	2	2	4
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	Will be able to discuss the basic concepts of science and scientific research.
2	Will be able to describe the scientific research process.
3	Will be able to discuss scientific research methods.
4	Explain the process of preparing a scientific research report.



5	Discuss the experimental research method
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**Programme Outcomes (Orthodontics Doctorate)**

1	Must know the transition procedure from primary dentition to permanent dentition, tooth eruption guidance, the precautions for tooth absence and bad habits.
2	May be able to diagnose the orthodontic malocclusion and able to present treatment alternatives for the case.
3	May be able to apply the analysis necessary for diagnosis, such as cephalometric analysis and model analysis and must know the occlusion.
4	Must know the orthodontic tooth movement, the force necessary for the tooth movement, and be able to take the precautions according to the unwanted tooth movements.
5	Must be able to diagnose the functional malocclusions and apply functional appliances.
6	Must be able to apply fixed treatment techniques used in our clinic such as edgewise, Roth, Alexander, MBT
7	Must be aware of the new treatment techniques and improvements in orthodontics.
8	Must know how the craniofacial complex develops and be able to follow the patient's development and growth.
9	Must be able to know how to apply removable appliances and their fabrication and their effects.
10	Must know about the retention period for the patient in order to keep the treatment results stable.

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

