

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Scientific Research Methods		rch Methods						
Course Code	BYK534	Co	Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 3	Workload 7	5 <i>(Hours)</i> Th	eory	2	Practice	0	Laboratory	0
Objectives of the Course	they have experi	enced the proc arch methods a	ess of pr and techr	eparing a s niques, and	scientific resea	rch proposal,	methods, to ensu to apply their stu accordance with	dies with
Course Content The aim and definition of system, the emergence a methods, data collection		rgence and de	velopmer	nt of moder	n science, met	thods in socia		
Work Placement N/A								
Planned Learning Activit	es and Teaching Me	thods Ex	planation	(Presentat	tion), Discussio	on, Individual	Study	
Name of Lecturer(s)								

## **Assessment Methods and Criteria**

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

# **Recommended or Required Reading**

1	Research Techniques and Report Writing, 1. Arıkan, R.2000.
2	Bilimsel Araştırma ve Yazma Teknikleri, Cebeci, S.2015, Alfa Yayınları, İstanbul.
3	Descriptive Statistical Techniques for Librarians. , Hafner, A.W. 1998.

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Scientific Research Methods and Philosophy of Science
2	Theoretical	Research methodology
3	Theoretical	Determining the research topic
4	Theoretical	Defining the research problem
5	Theoretical	Literature review
6	Theoretical	Writing the hypothesis
7	Theoretical	Determining the research method and model
8	Intermediate Exam	Quiz
9	Theoretical	Data collection and analysis
10	Theoretical	Scientific research writing rules and techniques
11	Theoretical	Interpretation and report writing
12	Theoretical	Principles of scientific publication ethics
13	Theoretical	Ethical standards, legal limitations and software
14	Theoretical	Responsible research publication: international standards for authors
15	Theoretical	TÜBİTAK research and publication board regulation YÖK scientific research and publication ethics directive
16	Final Exam	Final exam

Workload Calculation					
Activity	Quantity	Preparati	ion	Duration	Total Workload
Lecture - Theory	14	1		3	56
Assignment	1	1		18	19
Total Workload (Hours)					
[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS					



Learn	ing Outcomes
1	To be able to explain scientific research and its properties
2	To be able to prepare scientific research reccomendation
3	To be able to apply appropriate research methods and techniques
4	To be able to search and cite literature
5	To learn data collection and analysis techniques

## Programme Outcomes (Biochemistry (Medical) Master)

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- 2 To have the basic laboratory knowledge, apparatus and methods used in biochemistry
- 3 Analysis: To be able to analyze information critically
- 4 Synthesis: To be able to synthesize and adapt the knowledge in the field from different directions
- 5 Evaluation: To critically evaluate research in the field

### 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	5	5	4	5
P2	5	4	5	5	5
P3	5	5	5	5	5
P4	4	4	5	5	5
P5	5	5	4	4	4

