

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Scientific Research Method	ds				
Course Code	BYK634	Couse Level	Third Cycle (Doctorate Degree)			
ECTS Credit 2	Workload 50 (Hours)	Theory 2	Practice	0	Laboratory	0
Objectives of the Course To introduce graduate students to basic concepts related to scientific research methods, to ensure that they have experienced the process of preparing a scientific research proposal, to apply their studies with appropriate research methods and techniques, and to obtain a written report in accordance with scientific writing rules and ethical rules. as their purpose.						
Course Content The aim and definition of science, features of scientific knowledge, scientific knowledge and values system, the emergence and development of modern science, methods in social sciences, main research methods, data collection methods, measurement and test techniques						
Work Placement	N/A					
Planned Learning Activities	Explanation (Presenta	ition), Discussion	n, Case Stud	ly		
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 Scientific Research and Writing Techniques, Cebeci, S.2015
- 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	Scientific Research Methods Midterm Exam			
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	Scientific Research Methods Final Exam			

Workload Calculation						
Activity	Quantity	Preparation Duration		Total Workload		
Lecture - Theory	14	0.5	2	35		
Assignment	1	13	2	15		
	50					
[Total Workload (Hours) / 25*] = ECTS				2		
*25 hour workload is accepted as 1 ECTS						



Learn	Learning 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) Doctorate)						
1	To have basic theoretical knowledge about biochemistry and to help understanding biochemistry					
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	5	5
P2	4	5	4	4	5
P3	5	4	5	5	5
P4	4	5	5	4	4
P5	5	5	4	5	5

