



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Scientific Research Methods							
Course Code		ÖÖ320		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	3	Workload	72 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The overall objective of the research techniques, is to make students gain the course teacher candidates' competencies with technical and scientific research attitude, behavior, and perspective.							
Course Content		Science and basic concepts related to science (fact, knowledge, absolute, true, false, universal knowledge, etc.), basic information about the history of science, structure of scientific research, scientific methods, and different approaches in these methods, problem, research model, the universe and the sampling, data collection and data collection methods (quantitative and qualitative data collection techniques), data recording, data analysis, interpretation and reporting of data.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Project Based Study, Individual Study, Problem Solving					
Name of Lecturer(s)									

### Prerequisites & Co-requisites

Equivalent Course	EBB253
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### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	50
Term Assignment	1	20

### Recommended or Required Reading

1	Büyüköztürk, Ş., Akgün, Ö. E., Karadeniz, Ş., Demirel, F. ve Kılıç, E. (2011). Bilimsel araştırma yöntemleri. Ankara: PegemA.
2	Karasar, N. (2012). Bilimsel araştırma yöntemi. Ankara: Nobel Yayın.
3	Barlı, M. ve Nazik, H. (2010). Bilimsel araştırmaya giriş. Ankara: Gazi Kitap.

Week	Weekly Detailed Course Contents	
1	Theoretical	Scientific method and fundamental concepts
	Preparation Work	Barlı, M. ve Nazik, H. (2010). Bilimsel araştırmaya giriş. Ankara: Gazi Kitap.
2	Theoretical	Basic information about the history of science, relationship between science and research
	Preparation Work	Barlı, M. ve Nazik, H. (2010). Bilimsel araştırmaya giriş. Ankara: Gazi Kitap.
3	Theoretical	Scientific methods and different views on these methods
	Preparation Work	Barlı, M. ve Nazik, H. (2010). Bilimsel araştırmaya giriş. Ankara: Gazi Kitap.
4	Theoretical	Elements of scientific research and the structure of scientific research
5	Theoretical	The problem, the problem statement, hypothesis, purpose, significance, assumptions, understanding the concepts of boundedness in research
	Preparation Work	Karasar, N. (2012). Bilimsel araştırma yöntemi. Ankara: Nobel Yayın.
6	Theoretical	Population and sampling, sample types and sample selection considerations
	Preparation Work	Karasar, N. (2012). Bilimsel araştırma yöntemi. Ankara: Nobel Yayın.
7	Theoretical	Scientific research types (qualitative)
	Preparation Work	Karasar, N. (2012). Bilimsel araştırma yöntemi. Ankara: Nobel Yayın.
8	Intermediate Exam	Intermediate Exam
9	Theoretical	Scientific research types (quantitative)
	Preparation Work	Büyüköztürk, Ş., Akgün, Ö. E., Karadeniz, Ş., Demirel, F. ve Kılıç, E. (2011). Bilimsel araştırma yöntemleri. Ankara: PegemA.
10	Theoretical	Data gathering techniques (qualitative)
	Preparation Work	Büyüköztürk, Ş., Akgün, Ö. E., Karadeniz, Ş., Demirel, F. ve Kılıç, E. (2011). Bilimsel araştırma yöntemleri. Ankara: PegemA.
11	Theoretical	Data gathering techniques (quantitative)



11	Preparation Work	Büyüköztürk, Ş., Akgün, Ö. E., Karadeniz, Ş., Demirel, F. ve Kılıç, E. (2011). Bilimsel araştırma yöntemleri. Ankara: PegemA.
12	Theoretical	Data recording, analysis, interpretation (qualitative)
13	Theoretical	Data recording, analysis, interpretation of (Quantitative)
14	Theoretical	Data reporting.
15	Theoretical	Some report examples prepared by the students during the course period
16	Final Exam	FINAL EXAM

**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	5	0	2	10
Reading	3	0	4	12
Midterm Examination	1	0	10	10
Final Examination	1	0	12	12
Total Workload (Hours)				72
[Total Workload (Hours) / 25*] = ECTS				3

\*25 hour workload is accepted as 1 ECTS

**Learning Outcomes**

1	He/ She knows and uses the basic concepts of scientific research.
2	He/ She knows and applies what steps has scientific method.
3	He/ She interprets findings and the results of the quantitative research method was used
4	He/ She interprets the findings and results of studies conducted using qualitative research methods.
5	He/ She recognizes a scientific research and follows its processes and results.
6	He/ She uses the results of any scientific research
7	He/ She does a scientific research at basic level

**Programme Outcomes (Early Childhood Teacher Education)**

1	To be able to gain subject knowledge of profession in theory and practice in the learning process.
2	To be able to gain the competence of using the appropriate approach, strategy, technique for the plans in the learning process, by making instructional plans related to the subject-matter.
3	To be able to gain skills of the teaching profession in the learning process.
4	To be able to implement teaching profession knowledge, skills, attitudes and habits related to the subject-matter in a real teaching and learning environment in the learning process.
5	To be able to comprehend contemporary approaches of education and the philosophies they are based on.
6	To be able to gain the basic skills such as comprehending, expressing, commenting, evaluating, being aware and enterprising, communicating, acknowledging the individual related to the subject-matter
7	To be able to become individuals faithful to the Principles and Revolutions of Atatürk, be modern, democratic,, secular, protecting and deveoping one's country, being alive to the nation, respecting human rights, preserving the nature, not being discriminatory, giving importance to the traditions and customs, protecting the values
8	To be able to improve oneself in terms of sport, art and culture
9	To be able to become individuals believing in lifelong learning.
10	To be able to educate individuals who keep up with developments in social, economic, technological and scientific areas, who investigate the main reasons of World problems and try to contribute to the solution of these problems

**Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High**

	L1	L2	L3	L4	L5	L6	L7
P1	2	2	2	2	2	2	2
P2	3	4	5	5	4	4	4
P3	2	2	2	2	2	2	2
P4	2	2	2	2	2	2	2
P5	4	4	4	4	4	4	4
P6	2	2	2	4	3	2	5
P7	2	2	1	2	2	2	2
P8	2	2	2	2	2	2	2
P9	2	4	3	3	5	5	4



P10	4	2	4	3	4	4	3
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