



AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES
PHYSICAL EDUCATION AND SPORTS
PHYSICAL EDUCATION AND SPORTS
PHYSICAL EDUCATION AND SPORTS MASTER
COURSE INFORMATION FORM

Course Title	Scientific Research Techniques								
Course Code	BSÖ552	Course Level		Second Cycle (Master's Degree)					
ECTS Credit	2	Workload	45 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The aim of the course is to introduce with main scientific research methods for graduate students, to provide, to experience preparing scientific research proposal, to implement appropriate research methods and to present statistical findings and conclusions in written format according to common scientific writing rules and publication ethics.								
Course Content	Scientific research methods, process of scientific research, research questions and hypotheses, searching of literature, making a citation, publication ethics, ethical standards and legal limitations, data collection and analysis techniques, observation, interviewing, questionnaire, experimentation, referencing, findings and conclusion, scientific spelling rules								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Project Based Study, Individual Study								
Name of Lecturer(s)	Assoc. Prof. Mehmet ULUKAN								

Assessment Methods and Criteria

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

Recommended or Required Reading

1	1. Arıkan, R.2000. Araştırma Teknikleri ve Rapor Yazma, Gazi Kitabevi, 2. Ankara. 3. 2. Cebeci, S.2015. Bilimsel Araştırma ve Yazma Teknikleri, Alfa Yayınları, İstanbul. 2. 3. Day, R.A. 1996. Bilimsel Makale Nasıl Yazılır, Nasıl Yayınlanır. Tübitak Yayınları. 3. 4. Hafner, A.W. 1998. Descriptive Statistical Techniques for Librarians. 4. Chicago. 5. 5. Karasar, N.1995. Bilimsel Araştırma Yöntemi: Kavramlar, İlkeler, Teknikler. 3A Araştırma Eğitim, Danışmanlık Ltd. Şti., Ankara. 6. Kothari, C.R. 2004. Research Methodology Methods and Techniques. New Age International Publishers, India. 7. Özdamar, K. 2003. Modern Bilimsel Araştırma Yöntemleri, Kaan 8. Kitabevi, Eskişehir. 9. 8. Seyidoğlu, H.2009. Bilimsel Araştırma ve Yazma El Kitabı, Güzem Can Yayınları, İstanbul.
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Week	Weekly Detailed Course Contents	
1	Theoretical	Research Methodology
2	Theoretical	Determining the research topic
3	Theoretical	Defining the research problem
4	Theoretical	Searching of literature
5	Theoretical	Writing of hypotheses
6	Theoretical	Determining research methods and models
7	Theoretical	Collection and analysis of data
8	Intermediate Exam	MidTerm Exam
9	Theoretical	Citation rules and techniques of scientific research
10	Theoretical	Interpretation and writing of the report
11	Theoretical	The ethical principles of scientific publication
12	Theoretical	Ethical standards, legal limitations and software
13	Theoretical	Responsible research publication: international standards for authors
14	Theoretical	Regulation for research and broadcasting board of TUBITAK Directive for scientific research and publication ethics of YOK
15	Theoretical	Presentation of term work
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	1	2	39
Midterm Examination	1	0	3	3



Final Examination	1	0	3	3
	Total Workload (Hours)			45
	[Total Workload (Hours) / 25*] = ECTS			2
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Explain scientific research and its characteristics
2	Experience the process of preparing scientific research proposal
3	Implement the suitable research methods and techniques for studies
4	Searching and citing of literatures
5	Learn data gathering and analysis techniques
6	Apply the information and software about the ethical standards and legal limitations
7	Writing an appropriate report based on common scientific writing rules

Programme Outcomes (Physical Education and Sports Master)

1	Uses application and problem solving skills in interdisciplinary studies.
2	Develops basic scientific knowledge and attitude appropriate to body and sport.
3	Interpret the results of test development and measurement for the development of individuals in physical education and sport.
4	Explains the scientific methods in physical education and sports.
5	o follow national and international developments in the field and maintain professional development.
6	Beden eğitimi ve spor örgütlerinin örgüt iklimi ve kültürünü tanımlar.

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	5	5	5	5	5	5	5
P2	5	5	5	5	5	5	5
P3	5	5	5	5	5	5	5
P4	5	5	5	5	5	5	5
P5	5	5	5	5	5	5	5
P6	5	5	5	5	5	5	5

