

#### AYDIN ADNAN MENDERES UNIVERSITY GRADUATE SCHOOL OF HEALTH SCIENCES BIOSTATISTICS BIOSTATISTICS (MEDICAL) BIOSTATISTICS (MEDICAL) MASTER COURSE INFORMATION FORM

Course Title		Scientific Rese	earch Thecnic	ques					
Course Code		BIS504		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	2	Workload	48 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The aim of this students meth reports. Research also considered	s subject to re ods, by which arch design, c ed.	eview the ma they can fin conceptualiza	jor scientific d literature ation and op	c research met on a given top peralization, me	hods used in vic, gather and easurement, a	social sciences a l analyze data, a and sampling me	and teach Ind write hods are
Course Content		Scientific rese implementatio research repo	arch and the s n, data collec rt	scientific me tion methods	thod, resea and techn	rch design, res iques, data so	search proces urces, data ar	s, research plan alysis, preparati	, on of
Work Placement		N/A							
Planned Learning Activities and Teaching Methods		Explanation	(Presenta	tion), Individua	l Study				
Name of Lecturer(s) Prof. İmran		Prof. İmran Kl	JRT ÖMÜRLÜ	J, Prof. Mevl	üt TÜRE				

#### **Assessment Methods and Criteria**

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

### **Recommended or Required Reading**

1	Özdamar, K. (2003). Modern bilimsel araştırma yöntemleri. Kaan Kitabevi.
2	Çömlekçi, N. (2001). Bilimsel Araştırma Yöntemi ve İstatistiksel Anlamlılık Sınamaları. Bilim Teknik Yayınevi.
3	Neuman, W. L. (2008). Toplumsal Araştırma Yöntemleri Nitel ve Nicel Yaklaşımlar,(Sedef Özge, çev.), Cilt 1, 2. Baskı, İstanbul: Yayın Odası.
4	Wilson, F. B. (1990). An introduction to scientific research. Courier Corporation.

Week	Weekly Detailed Course	kly Detailed Course Contents				
1	Theoretical	Basic Concepts of science and research				
2	Theoretical	Determining the Research Topic				
3	Theoretical	Defining the Research Problem				
4	Theoretical	Literature Review				
5	Theoretical	Determination of Research Objectives				
6	Theoretical	Determination of Research Variables and Scales				
7	Theoretical	Determination of Research Hypothesis				
8	Intermediate Exam	Midterm Examination				
9	Theoretical	Sample Size Calculations				
10	Theoretical	Data Collection Methods				
11	Theoretical	Determination of Research Designs and Research Methods				
12	Theoretical	Scientific Report Writing				
13	Theoretical	Research and Article Review				
14	Theoretical	Research and Article Review				
15	Theoretical	Literature review and discussion				
16	Final Exam	Final Exam				

#### **Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Assignment	1	0	10	10
Midterm Examination	1	10	2	12



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Final Examination	1	10	2	12		
Total Workload (Hours)			48			
		[Total Workload (	Hours) / 25*] = <b>ECTS</b>	2		
*25 hour workload is accepted as 1 ECTS						

Learn	ing Outcomes
1	To be able to define the basic terms related to research techniques
2	Explain the qualitative and quantitative research techniques
3	To be able to plan a research topic in conformity with scientific research methods
4	To be able to analyse the solution proposals of the research topic
5	To be able to report the research topic that's given in conformity with scientific rules

## Programme Outcomes (Biostatistics (Medical) Master)

1	To be able to understand the interdisciplinary interaction releated with biostatistics.				
2	to be able to use Theoretical and practical knowledge at the level of expertise.				
3	To be able to nterpret the information by integrating information from different disciplines and create new information				
4	To be able to nalyze the problems encountered by using research methods				
5	to be able to conduct a study as an independent specialist				
6	To be able to formulate solutions for complex unpredictable problems encountered by developing new approaches and taking responsibility.				
7	To be able to resolve problems in environments that require leadership.				
8	To be able to evaluate and direct knowledge and skills with a critical approach at the level of expertise.				
9	To be able to to give statistical advise at the begining stages of preparing health related projects				
10	To be able to get the knowledge and the ability of using statistical packages				

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

