

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

Course Title		Statistical Methods For Medical Studies							
Course Code		BİS521		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	2	Workload	48 (Hours)	Theory	1	Practice	0	Laboratory	0
Objectives of the Course		Theoretical sub-structure of some statistical methods used in the field of health with special application to have a grasp of knowledge and skills.							
Course Content		Meta-analysis models.	, Survival ana	lysis, Cox reg	ression, p	robit analysis,	logistic regres	sion analysis, L	_oglinear
Work Placement		N/A							
Planned Learning Activities		and Teaching	Methods	Explanation	(Presentat	tion)			
Name of Lecturer(s)									

Assessment Methods and Criteria					
Method	Quantity	Percentage (%)			
Midterm Examination	1	40			
Final Examination	1	60			

## **Recommended or Required Reading**

1	Fleiss, JL. (1981). Statistical Methods for Rates and Proportions, 2nd Ed. John Wiley and Sons Series, USA.
2	Everitt, BS. (1980). The Analysis of Contingency Tables, Chapman and Hall Ltd, UK.
3	Rothman, KJ., Greenlang, S. (1998). Modern Epidemiology 2nd Ed., Lippincott Williams and Wilkins, USA.
4	Armitage, P., Berry, G., & Matthews, J. N. S. (1971). Statistical methods in medical research (Vol. 449). Oxford: Blackwell Scientific

Week	Weekly Detailed Cours	se Contents
1	Theoretical	Basic Concepts
2	Theoretical	Meta analysis
3	Theoretical	Life table analysis
4	Theoretical	kaplan meier analysis
5	Theoretical	kaplan meier analysis
6	Theoretical	Cox regression
7	Theoretical	Cox regression
8	Intermediate Exam	Midterm exam
9	Theoretical	Categorical Data Analysis
10	Theoretical	Probit analysis
11	Theoretical	Probit analysis
12	Theoretical	Logistic regression analysis
13	Theoretical	Logistic regression analysis
14	Theoretical	Loglinear models
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	10	0	10
Midterm Examination	1	10	2	12



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

Learning	Outcomes
Loanning	Outcomes

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1	To be able to comprehend and apply meta analysis in the field of health.
2	To be able to comprehend and apply survival analysis in the field of health.
3	To be able to comprehend and apply logistic regression analysis in the field of health.
4	To be able to comprehend and apply probit analysis in the field of health.
5	To be able to comprehend and apply longlinear model analysis in the field of health.

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