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

Course Title	Biostatistics-II								
Course Code	BİS502		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	6	Workload	152 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	The planning, conducting and interpretation of statistical analysis of a scientific research								
Course Content	Medical Research Methods; Medical Research Study Designs; Summarizing Data; Tables and graphs; Probability; Analysis data of Three or More Groups; Relationships of Variables; Survival Analysis; Multivariate Statistical Methods; Methods of Evidence-Based Medicine; Clinical Decision								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation)								
Name of Lecturer(s)									

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

Recommended or Required Reading	
1	Özdamar, K. (2001). SPSS İle Biyoistatistik, Kaan Kitapevi. Baskı. Eskişehir.
2	Dawson, B., Trapp, R. G., & Greive, A. (2004). Basic & clinical biostatistics (Vol. 4). New York: Lange Medical Books/McGraw-Hill.
3	Norman, G. R., & Streiner, D. L. (2008). Biostatistics: the bare essentials. PMPH USA.
4	Gallin, J. I., & Ognibene, F. P. (Eds.). (2012). Principles and practice of clinical research. Academic Press.
5	Daniel, W. W., & Cross, C. L. (2018). Biostatistics: a foundation for analysis in the health sciences. Wiley.

Week	Weekly Detailed Course Contents	
1	Theoretical	Medical Research Study Designs
	Practice	Applications with package programs
2	Theoretical	Summarizing Data, and showing it on tables and graphs
	Practice	Applications with package programs
3	Theoretical	Probability
	Practice	Applications with package programs
4	Theoretical	Single Group Analysis
	Practice	Applications with package programs
5	Theoretical	Two-Group Analysis
	Practice	Applications with package programs
6	Theoretical	Analysis of Three or More Groups
	Practice	Applications with package programs
7	Theoretical	Analysis of Three or More Groups
	Practice	Applications with package programs
8	Intermediate Exam	Midterm Analysis
9	Theoretical	Analysis of Three or More Groups
	Practice	Applications with package programs
10	Theoretical	Relationships of Variable
	Practice	Applications with package programs
11	Theoretical	Survival Analysis
	Practice	Applications with package programs
12	Theoretical	Multivariate Statistical Methods
	Practice	Applications with package programs
13	Theoretical	Methods of Evidence-Based Medicine

13	Practice	Applications with package programs
14	Theoretical	Clinical Decision
	Practice	Applications with package programs
15	Theoretical	Literature review and discussion
	Practice	Literature review and discussion
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	1	10	0	10
Quiz	14	2	1	42
Midterm Examination	1	20	2	22
Final Examination	1	20	2	22
			Total Workload (Hours)	152
			[Total Workload (Hours) / 25*] = **ECTS**	6

**25 hour workload is accepted as 1 ECTS*

Learning Outcomes

1	To be able to report the stage of determining the study of design, execution skills to scientific research.
2	To be able to Understand the Points to Be Considered in Designing the Experimental
3	To be able to Prepare Analysis of Research Data
4	Performing statistical analysis
5	To be able to Interpret the Results of Analysis

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