AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Biostatistics-I						
Course Code		BİS501		Couse Level		Second Cycle (Master's Degree)		
ECTS Credit	6	Workload	152 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The importance of biostatistics, data presentation, summarizing, sample selection, basic knowledge on statistical comparisons.						
Course Content		Definitions and Terminology, Data Collection Method; Compilation of Information, Graphics; Means, Distribution dimensions, Probability, Binomial Probability and Distribution; Poisson distribution and probability, sampling; Hypothesis Testing, Normal Distribution; Normal Distribution and z-test; t Distribution and Test; Analysis of Variance (one-way, two way); Chi-Square Distribution and the Test; Non-Parametric Tests; Regression Analysis; Correlation Analysis						
Work Placement		N/A						
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration				
Name of Lecturer(s)		Prof. İmran KURT ÖMÜRLÜ						

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Dawson, B., Trapp, R. G., & Greive, A. (2004). Basic & clinical biostatistics (Vol. 4). New York: Lange Medical Books/McGraw-Hill.
2	Özdamar, K. (2001). SPSS İle Biyoistatistik, Kaan Kitapevi. Baskı. Eskişehir.
3	Gallin, J. I., & Ognibene, F. P. (Eds.). (2012). Principles and practice of clinical research. Academic Press.
4	Çelik, Y. (2011). Nasıl? Biyoistatistik Bilimsel Araştırma SPSS.
5	Daniel, W. W., & Cross, C. L. (2018). Biostatistics: a foundation for analysis in the health sciences. Wiley.
6	Sokal, R. R., & Rohlf, F. J. (1987). Introduction to biostatistics. New York.
7	Pagano, M., & Gauvreau, K. (2018). Principles of biostatistics. Chapman and Hall/CRC.
8	Norman, G. R., & Streiner, D. L. (2008). Biostatistics: the bare essentials. PMPH USA.

Week	Weekly Detailed Course Contents	
1	Theoretical	Basic definitions and concepts
	Practice	Applications with package programs
2	Theoretical	Editing and graphically analyzing data
	Practice	Applications with package programs
3	Theoretical	Descriptive statistics
	Practice	Applications with package programs
4	Theoretical	Probability, Binomial probability and distribution
	Practice	Applications with package programs
5	Theoretical	Poisson distribution and probability
	Practice	Applications with package programs
6	Theoretical	Hypothesis testing
	Practice	Applications with package programs
7	Theoretical	Normal distribution and z-test
	Practice	Applications with package programs
8	Intermediate Exam	Midterm exam
9	Theoretical	t distribution and t tests
	Practice	Applications with package programs
10	Theoretical	One-way analysis of variance
	Practice	Applications with package programs
11	Theoretical	Non-parametric tests

11	Practice	Applications with package programs
12	Theoretical	Non-parametric tests
	Practice	Applications with package programs
13	Theoretical	Chi-square distribution and test
	Practice	Applications with package programs
14	Theoretical	Regression and correlation analysis
	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 Understand the Importance of Statistical Methods in Studies
2	To be able to Understand the Points to Be Considered in Designing the Experimental
3	To be able to Decide Enough Sample Holdings
4	To be able to Prepare Analysis of Research Data
5	To be able to Interpret the Results of Analysis

Programme Outcomes *(Fundamentals of Nursing Master)*

1	to be able to comprehend the philosophy of nursing.
2	to be able to analyze the relationship between the basic concepts of nursing
3	to be able to compose internalization of Professional values of nursing
4	to be able to apply developed Professional nursing consciousness to project nursing care
5	to be able to use the nursing process in nursing care
6	to be able to do research that will contribute to the Fundamentals of Nursing
7	to be able to follow scientific developments are specific to the Fundamentals of Nursing
8	to be able to analyze that accessed information are specific to the Fundamentals of Nursing
9	to be able to apply evidence-based nursing care to Project nursing care
10	to be able to comprehend the basicphilosophy of teaching Fundamentals of Nursing
11	to be able to use appropriate teaching principles and methods of teaching Fundamentals of Nursing
12	to be able to employ effective use appropriate assessment methods of teaching Fundamentals of Nursing

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

	L1	L2	L3	L4	L5
P2	2	2	2	2	2
P4	2	2	2	2	2
P6	5	5	5	5	5
P7	4	4	4	4	4
P8	4	4	4	4	4
P9	4	4	4	4	4