

# BIOSTATISTICS

1	Course Title:	BIOSTATISTICS
2	Course Code:	SAB6001
3	Type of Course:	Compulsory
4	Level of Course:	Third Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. M.Kemal Soylu
15	Course Lecturers:	Prof. Dr. İlker ERCAN Yrd. Doç. Dr. Bülent EDİZ
16	Contact information of the Course Coordinator:	Prof.Dr.İlker ERCAN ercan@uludag.edu.tr 2953888 Uludağ Üniversitesi, Tıp Fakültesi, Biyoistatistik AD.16059, Nilüfer, BURSA
17	Website:	<a href="http://saglikbilimleri.uludag.edu.tr/anabilimdallari.php">http://saglikbilimleri.uludag.edu.tr/anabilimdallari.php</a>
18	Objective of the Course:	Importance of biostatistic, presenting and summarizing data, selection of sample, to give basic information about statistical comparisons.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Understanding the importance of statistical methods in studies
	2	Understanding of the points to be considered in experimental design
	3	Planning a study
	4	Determining required sample size for a study
	5	Preparing data for analysis
	6	Interpretation of analysis results
	7	Preparing tables and figures for visualization of analysis result
	8	
	9	
	10	
21	Course Content:	
	<b>Course Content:</b>	
Week	Theoretical	Practice
1	Biostatistical definition and terms Way of obtaining information	Recognizing Statistical Packages and SPSS Entering data in SPSS

2	Summarizing the information Graph drawing	Graph drawing in SPSS
3	Means Distribution scales	Application in SPSS
4	Probability Binomial distribution	Drawing tables with computer programs
5	Poisson distribution and probability Sampling	Calculation of sample size and probability
6	Hypothesis tests Normal distribution	Application in SPSS
7	Normal distribution and z test,	Application in SPSS
8	t distribution and test	Application in SPSS
9	One-way ANOVA, two-way ANOVA	Application in SPSS
10	Chi-square distribution and test	Application in SPSS
11	Chi-square distribution and test	Application in SPSS
12	Nonparametric tests	Application in SPSS
13	Nonparametric tests	Application in SPSS
14	Regression Analysis Correlation Analysis	Application in SPSS

22	Textbooks, References and/or Other Materials:	Dawson B., Trapp RG. "Basic&Clinical Biostatistics" . McGraw-Hill International Ed. Third Ed. (2000)			
Activites			Number	Duration (hour)	Total Work Load (hour)
Midterm Exam	0	0.00	14	2.00	28.00
Practicals/Labs			14	2.00	28.00
Home work project	0	0.00	0	0.00	0.00
Homeworks			0	0.00	0.00
Projects	1	100.00	0	0.00	0.00
Field Studies			0	0.00	0.00
Midterm exams			0	0.00	0.00
Others			14	5.00	70.00
Total Exams			100.00	30.00	30.00
Total Work Load					156.00
Course Total work load/ 30 hr					5.20
<b>24. ECTS /WORK LOAD TABLE</b>					
ECTS Credit of the Course					5.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0
ÖK2	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0
ÖK3	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0
ÖK4	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0

ÖK5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0
ÖK6	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0
ÖK7	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			