

BIOSTATISTICS

1	Course Title:	BIOSTATISTICS
2	Course Code:	SAB 6001
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. GÖKHAN OCAKOĞLU
15	Course Lecturers:	Prof. Dr. İlker ERCAN Doç.Dr. Deniz SİĞİRLİ Doç.Dr. Gökhan OCAKOĞLU Doç. Dr. Güven ÖZKAYA
16	Contact information of the Course Coordinator:	Prof. Dr. İlker ERCAN Doç.Dr. Deniz SİĞİRLİ Doç.Dr. Gökhan OCAKOĞLU Doç. Dr. Güven ÖZKAYA ercan@uludag.edu.tr 2953888 Uludağ Üniversitesi, Tıp Fakültesi, Biyoistatistik AD.16059, Nilüfer, BURSA
17	Website:	http://saglikbilimleri.uludag.edu.tr/anabilimdallari.php
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:	Contribution to academic 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:	

	Course Content:				
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		
Activites			Number	Duration (hour)	Total Work Load (hour)
22	Theoretical		14	2.00	28.00
Textbooks, References and/or Other Materials:			Dawson D., Hupp RG. Basic Clinical Biostatistics . McGraw-Hill International Ed. Third Ed. (2006)		
Practicals/Labs			14	2.00	28.00
TERM LEARNING ACTIVITIES			NUMBER	WEIGHT	
Self study and preparation			0	0.00	0.00
Homeworks			0	0.00	0.00
Projects			0	0.00	0.00
Quiz			0	0.00	0.00
Field Studies			0	0.00	0.00
Midterm exams			0	0.00	0.00
Final Exam			1	100.00	
Others			14	5.00	70.00
Final Exams			1	30.00	30.00
Contribution of Term (Year) Learning Activities to			0.00		
Total Work Load					156.00
Total work load / 30 hr					5.20
Contribution of Final Exam to Success Grade			100.00		
ECTS Credit of the Course					5.00
Measurement and Evaluation Techniques Used in the Course			Measurement and evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.		
24	ECTS / WORK LOAD TABLE				

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	4	4	0	0	0	0	4	0	0	4	0	0	0	0	0	0
ÖK2	4	4	0	0	0	0	4	0	0	4	0	0	0	0	0	0

ÖK3	4	4	0	0	0	0	4	0	0	4	0	0	0	0	0	0
ÖK4	4	4	0	0	0	0	4	0	0	4	0	0	0	0	0	0
ÖK5	4	4	0	0	0	0	4	0	0	4	0	0	0	0	0	0
ÖK6	4	4	0	0	0	0	4	0	0	4	0	0	0	0	0	0
ÖK7	4	4	0	0	0	0	4	0	0	4	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low			3 Medium			4 High			5 Very High				