

BIOSTATISTICS

1	Course Title:	BIOSTATISTICS
2	Course Code:	HEM2102
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	4
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç.Dr. GÜVEN ÖZKAYA
15	Course Lecturers:	Prof.Dr. İlker ERCAN
16	Contact information of the Course Coordinator:	Prof.Dr.İlker ERCAN ercan@uludag.edu.tr 2953888, Uludağ Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Binası, Biyoistatistik Anabilim Dalı, 16059, Nilüfer, Bursa
17	Website:	
18	Objective of the Course:	Importance of biostatistics, description and summerizing of the data, choosing a sample, giving fundemental information about statistical comparisons.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Achieving information for planning the research
	2	Presenting the data
	3	Applying basic statistical techniques
	4	Understanding the statistical terms while reading the scientific publications.
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Decsription and terms, ways of collecting the information	
2	Compiling the information, graphics	
3	Means, measures of distribution	

4	Probability, binomial distribution and its probability	
5	Poisson distribution and its probability, sampling	
6	Hypothesis tests, normal distribution	
7	Normal distribution and z test	
8	t test and t distribution	
9	Analysis of variance (one way)	
10	Analysis of variance (two way)	
11	Chi-square test and chi-square distribution	
12	Non-parametric tests	
13	Regression analysis	
14	Correlation analysis	

22	Textbooks, References and/or Other Materials:	1- Kan I. "Biyoistatistik". Nobel Yayın Dağıtım.(2006) 2- Dawson B., Trapp RG. "Basic&Clinical Biostatistics" . McGraw-Hill International Ed. Third Ed. (2000) 3- Kan I., Ercan I., Ediz B. "Biyoistatistik Dersi Uygulamaları". Uludağ Üni. Basımevi Müd. (2006)
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23	Assesment
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT		
Midterm Exam	1	40.00		
Activites		Number	Duration (hour)	Total Work Load (hour)
Final Exam	1	60.00	2.00	28.00
Theoretical				
Practicals/Labs		0	0.00	0.00
Contribution of Term (Year) Learning Activities to Self Study and preparation		40.00	0.00	0.00
Homeworks		0	0.00	0.00
Contribution of Final Exam to Success Grade		60.00	0.00	0.00
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
Measurement and Evaluation Techniques Used in the Course		1	15.00	15.00
Others		14	2.00	28.00
21. TOTAL WORKLOAD TABLE				
Final Exams		1	20.00	20.00
Total Work Load				91.00
Total work load/ 30 hr				3.03
ECTS Credit of the Course				4.00

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	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	5	0	0	5	0	4	0	0	0	0	0
ÖK3	0	0	0	0	0	5	0	0	5	0	3	0	0	0	0	0
ÖK4	0	0	0	0	0	5	0	0	5	0	4	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
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