

# 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:	
	<b>Course Content:</b>	
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	

23	Assesment				
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 Success Grade			40.00	0.00	0.00
Self study and preparation					
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
ET 20107 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

<b>Contribution Level:</b>	<b>1 very low</b>	<b>2 low</b>	<b>3 Medium</b>	<b>4 High</b>	<b>5 Very High</b>
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