BIOSTATISTICS

1	Course Title:	BIOSTATISTICS	
2	Course Code:	MBG2004	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	2	
6	Semester:	4	
7	ECTS Credits Allocated:	6.00	
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:	Dr. Ögr. Üyesi Adnan Kılıç	
15	Course Lecturers:	Dr. Öğr. Üyesi Handan Engin KIRIMLI	
16	Contact information of the Course Coordinator:	Mail: adnank@uludag.edu.tr Bursa Uludağ Üniversitesi Fen edebiyat Fakültesi Fizik Bölümü Dahili Tel: 41703	
17	Website:		
18	Objective of the Course:	To educate students to become qualified in the field of data collection, organization, analizing, explanation and decision-making for a subject	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	definition of biostatistics and theoretical distributions
		2	definitive parameters for distributions,
		3	definitive table and graphic making methods
		4	parametric and nonparametric importance test
		5	analysis of correlation and regression
		6	sampling methods
		7	which importance test will be use for statistical analysis of a research
		8	evalution and explanation of a scientific research
		9	
		10	
21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Introduction, statistical definitions and usage in veterinary field	
2	Classification of data and definitive frequency distribution parameters	
3	Table and graphic making methods, marginal, cross table, histogram	

4	Theoretical distributions and importance tests, general information, variations in measurements, parametric and nonparametric importance tests, making decision for correct choice	
5	Importance test for difference between two means, comparing means of groups	
6	Variance analysis and estimation technique of different groups by investigating relevant variances, Tukey, Duncan and Dunnett Tests	
7	Importance test for the difference between two percentages; dependent and independent group testing	
8	Population mean importance test, homogenity test	
9	Variance analysis at recurrent measurement, one way anova testing procedure	
10	Nonparametric tests; The sign test, Mann Whitney U test, Wilcoxon paired two sample test	
11	Kruskal Wallis variance analysis	
12	Chi-square test, Yates correction, Fisher's chi-square test, r x c chi-square test	
13	Simple correlation and regression analysis	
14	Sampling methods	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	5.00	70.00
Homeworks	1	14.00	14.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	30.00	30.00
Total Work Load			180.00
Contribution of Term (Year) Learning Activities to	40.00		6.00
ECTS Credit of the Course			6.00

Biyoistatistik, Kan İ. Bursa,1998.
Statistics for veterinary and animal science. Petrie A.

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Quiz	1	10.00
Final Exam	1	60.00

Total work load/ 30 hr

Contribution of Final Exam to Success Grade	60.00
Total	100.00
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	2	2	1	2	4	2	2	1	2	3	3	0	0	0	0

ÖK2	4	2	2	1	2	4	2	2	1	2	3	3	0	0	0	0
ÖK3	4	2	2	1	2	4	2	2	1	2	3	3	0	0	0	0
ÖK4	4	2	2	1	2	4	2	2	1	2	3	3	0	0	0	0
ÖK5	4	2	2	1	2	4	2	2	1	2	3	3	0	0	0	0
ÖK6	4	2	2	1	2	4	2	2	1	2	3	3	0	0	0	0
ÖK7	4	2	2	1	2	4	2	2	1	2	3	3	0	0	0	0
ÖK8	4	2	2	1	2	4	2	2	1	2	3	3	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**