BIOSTATISTICS

1	Course Title:	BIOSTATISTICS	
2	Course Code:	VET2021	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	2	
6	Semester:	3	
7	ECTS Credits Allocated:	2.00	
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:	Prof. Dr. M.MUSTAFA OĞAN	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Mail: mogan@uludag.edu.tr Uludağ Üniversitesi Veteriner Fakültesi Zootekni Anabilim Dalı	
17	Website:		
18	Objective of the Course:	o 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	The student learns: 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	

22	Textbooks, References and/or Other Materials:	İstatistik Uygulamalar, Kutsal A., Alpan O., Arpacık R. Ankara, 1990. Biyoistatistik, Sümbüloğlu K., Sümbüloğlu V. Ankara, 2007. Biyoistatistik, Kan İ. Bursa, 1998. Statistics for veterinary and animal science, Petrie A., Watson P. Balckwell science ltd. UK, 2004.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	1	10.00
Home work-project	0	0.00
Final Exam	1	50.00
Total	3	100.00
Contribution of Term (Year) Learning Activities to Success Grade		50.00
Contribution of Final Exam to Success Grade		50.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		

24	**ECTS / WORK LOAD TABLE**

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	10	2.00	20.00
Homeworks	0	0.00	0.00
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	15.00	15.00
Total Work Load			73.00
Total work load/ 30 hr			2.43
ECTS Credit of the Course			2.00

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	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**				