



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Statistical Applications in Veterinary Medicine							
Course Code		VZO506		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	100 (Hours)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course		To teach the descriptive statistics, table and graphic preparation, sampling and sampling methods, theoretical distributions, correlation and regression analysis.							
Course Content		The descriptive statistics, table and graphic preparation, sampling and sampling methods, theoretical distributions, correlation and regression analysis							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Individual Study, Problem Solving					
Name of Lecturer(s)		Prof. Mehmet Kenan TÜRKYILMAZ							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Özdamar, K. (1999): SPSS ile Biyoistatistik. Kaan Kitabevi, Eskişehir.
2	Tekin, M.E. (2010): Örneklerle Bilgisayarda İstatistik. Selçuk Üniversitesi Basımevi, Konya
3	Sümbüloğlu, K, Sümbüloğlu, V. (1990): Biyoistatistik. Hatiboğlu Yayınları:53, Ankara
4	Mrode, R.A. (2005): Linear Models for the Prediction of Animal Breeding Values. CABI publishing, Cambridge, USA.
5	Petrie, A., Watson, P. (1999): Statistics for Veterinary and Animal Science. Blackwell Science Ltd.

Week	Weekly Detailed Course Contents	
1	Theoretical & Practice	Description the basic concepts related to statistics
2	Theoretical & Practice	Descriptive criteria for the distributions (Arithmetic, harmonic, geometric mean, mode, median, and peak value)
3	Theoretical & Practice	Prevalence criteria of distribution (standard deviation, standard error, variance, variation coefficient)
4	Theoretical & Practice	The graphic preparation from data set
5	Theoretical & Practice	The table preparation from data set
6	Theoretical & Practice	Sampling
7	Theoretical & Practice	Sampling methods
8	Intermediate Exam	Midterm exam
9	Theoretical & Practice	Theoretical distributions (binominal distribution)
10	Theoretical & Practice	Theoretical distributions (poisson distribution)
11	Theoretical & Practice	Theoretical distributions (normal distribution)
12	Theoretical & Practice	Standard normal distribution
13	Theoretical & Practice	Correlation analysis
14	Theoretical & Practice	Regression analysis
15	Theoretical & Practice	Time series analysis
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Assignment	1	0	10	10
Individual Work	1	0	15	15
Midterm Examination	1	15	1	16



Final Examination	1	16	1	17
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Knows the basic concepts used in statistics, and comment.
2	In the data set, makes comment about the distribution.
3	Makes presentation of the data set with table or graphic.
4	Makes the analysis of the relationships between variables.
5	Knows the sampling methods.
6	The many example can be created from the population.

Programme Outcomes (Veterinary Pharmacology and Toxicology Master)

1	to be able to comprehend expert knowledge on field of pharmacology and toxicology in veterinary medicine
2	to be able to define expert knowledge on interdisciplinary interaction in pharmacology and toxicology
3	to be able to formulate ideas to solve complex problems using theoretical and practical information gained throughout the pharmacology and toxicology education
4	to be able to integrate and interpret information in the area of pharmacology and toxicology with information in different fields and, if the need arises, provides scientific information and solutions to solve problems.
5	to be able to develop and use strategies in his/her field of expertise in Master's Program of Pharmacology and Toxicology
6	to be able to comprehend methods of obtained and submitted scientific knowledge
7	to be able to analyse current information related to his/her field of expertise (scientific information, procedures etc.) and use them when necessary.
8	to be able to apply technological tools in social relationships of vocational and professional environment.
9	to be able to review, evaluate and interpret any data (field observations, available scientific information etc.) towards a specific purpose.
10	to be able to comprehend expert knowledge on the function and basic pharmacological features of pharmacology and sub-branches of science, relationship between the drug and poison, pharmacokinetic, effects of the drugs, the dose-intensity and dose-effect relationship.
11	to be able to identify expert knowledge on the function and basic toxicological features of poison, classifications and types of poisoning, toxicokinetic, general principles of treatment of poisoning.
12	to be able to define and use laboratory equipment in a pharmacology and toxicology laboratory.

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L5	L6
P6	5	5	5	5	4
P9	4	4	5	5	5

