



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Scientific Research Methods							
Course Code		VHB533		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	2	Workload	55 (Hours)	Theory	2	Practice	0	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, Discussion, Case Study, Problem Solving					
Name of Lecturer(s)		Lec. Ömer SEVİM							

### 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.

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

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	2	0	5	10
Reading	1	0	5	5
Midterm Examination	1	5	1	6



Final Examination	1	5	1	6
Total Workload (Hours)				55
[Total Workload (Hours) / 25*] = ECTS				2
*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.

### Programme Outcomes (Animal Nutrition and Nutritional Diseases (Veterinary Medicine) Master)

1	to be able to comprehend information about basic animal nutrition and feeds for protecting animal health, scientific and technological animal production.
2	to be able to formulate economical and full-satisfactory rations with considering product quality and health and inform animal producers about practical/appropriate feeding methods.
3	to be able to apply recent scientific and technological developments in animal nutrition easier and produce proper strategies against to problems on this field.
4	to be able to analyse the properties of feeds used in proper and economical rations formulated due to needs of animal species.
5	to be able to inform animal producers about the common feedstuffs used in animal nutrition
6	to be able to interpret physical, diagnostic and chemical analysis methods used in determinin feed quality.
7	to be able to comprehend processing and the effects of processing on animal yield.
8	to be able to identify the term "feed hygiene" and have information about the usage availability of contaminated feedstuffs.
9	to be able to apply the informations related to feed additives in a proper way.
10	to be able to formulate the results and factors decreasing production.
11	to be able to apprehend the nutrition related diseases and their solution recommendations which may be applied in feeding or formulating feeds for preventing nutritonal diseases.

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

	L1	L2	L3
P1	5	4	2
P2	5	4	2
P3	5	4	2
P4	5	4	
P5	5		4
P6	5		2
P7	5		

