AYDIN ADNAN MENDERES UNIVERSITY
FACULTY OF VETERINARY MEDICINE
VETERINARY MEDICINE
COURSE INFORMATION FORM

Course Title	Basic Laboratory Practices								
Course Code	VET134		Couse Level	First Cycle (Bachelor's Degree)					
ECTS Credit	2	Workload	50 *(Hours)*	Theory	1	Practice	0	Laboratory	0
Objectives of the Course	To teach the calculation methods used in laboratory practise, units systems and their transforms, preparation of solution and to give information about measuring methods.								
Course Content	International measuring system,solutions and concentrations, dilutions, titrations, gravimetry, pH, colorimetric methods, laboratory safety, radioactivity								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Problem Solving								
Name of Lecturer(s)									

Prerequisites & Co-requisities	
Equivalent Course	VET132

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	28
Final Examination	1	60
Quiz	1	6
Assignment	1	6

Recommended or Required Reading	
1	Adamson AW, Gast AP(1999) Physical Chemistry of Surfaces, John Wiley New York
2	İraz g, Özler MA(2002) laboratuar tekniği, Muğla Üniversitesi, Muğla

Week	Weekly Detailed Course Contents	
2	Theoretical	To do examples
3	Theoretical	Solutions and concentration units, percentage calculations solution
4	Theoretical	Dilution effect of the water of hydration to concentrations calculations and
5	Theoretical	Normality and molarity calculations
6	Theoretical	Preparation of standard solutions and calibration curve
7	Theoretical	Titremetrik measurements, pH measurement, pH indicators, and the limits
8	Intermediate Exam	Midterm Exam
9	Theoretical	Gravimetric, volumetric methods
10	Theoretical	colorimetric methods
11	Theoretical	Cleaning of laboratory equipment
12	Theoretical	Laboratory safety
13	Theoretical	Storage and transport of chemicals
14	Theoretical	Radyoaktivite
15	Theoretical	Homework presentation

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	1	1	30
Assignment	1	2.5	1	3.5
Term Project	1	3	1	4
Reading	1	1	1.5	2.5
Midterm Examination	1	3	1	4

Final Examination	1	5	1	6
			Total Workload (Hours)	50
			[Total Workload (Hours) / 25*] = **ECTS**	2
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To be able to learn international units
2	To be able to transform international units
3	To be able to prepare normal and molar solutions
4	To be able to prepare different pH solutions
5	To be able to have knowledge about some measurig methods and their principles

Programme Outcomes *(Veterinary Medicine)*	
1	The student knows anatomy, structure/function of organs and tissues as well as physiological mechanisms of especially farm animals.
2	The student successfully executes the clinical applications on the basis of theoretical and applied knowledge.
3	The student diagnoses diseases using various examination methods.
4	The student can perform differential diagnosis by evaluating clinical findings in the light of laboratory findings.
5	The student is able to treat microbial, viral, parasitic and metabolic diseases successfully.
6	The student is able to perform basic surgical operations in animals.
7	The student is able to intervene in any type of parturition.
8	The student knows and executes basic principles of artificial insemination.
9	If the need arises, the student is able to perform necropsy and pathological evaluation for the aim of diagnosis and differential diagnosis.
10	The student knows and executes principles of preventive medicine.
11	The student applies needed applications on veterinary public health and food safety issues
12	The student recognizes different races of within a species on the basis of morphology and physiology
13	The student knows management practices concerning farm animals and is capable of managing of a farm
14	The student prepares animal nutrition rations for farm animals.
15	The student organizes feeding and nutrition programs in animal farms.
16	The student knows and executes the code of veterinary practice
17	The student knows and applies current legislative rules on animal welfare/rights
18	The student takes into account all scientific as well as professional ethic rules in executing veterinary practice
19	The student involves in all fields and practices concerning veterinary medicine

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

	L1	L2	L3	L4	L5
P4	3	4	4	3	4
P19	5	5	5	5	5