



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

Course Information Form

Course Title		Clinical Biochemistry							
Course Code		VET501		Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit	2	Workload	56 (Hours)	Theory	1	Practice	1	Laboratory	0
Objectives of the Course		To teach the biochemical parameters associated with diseases.Biochemical parameters that can be used for diagnostic purposes to teach.Biochemical tests to make							
Course Content		They can do and intepret basic clinical biochemistry practice after postgraduate teaching.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Discussion					
Name of Lecturer(s)		Assoc. Prof. Serap ÜNÜBOL AYPAK, Prof. Ayşegül BİLDİK, Prof. Funda KIRAL, Prof. Pınar Alkım ULUTAŞ							

Prerequisites & Co-requisites

Prerequisite	VET201&VET202&VET203&VET204&VET205&VET206&VET207&VET208&VET209&VET210&VET211&VET212&VET213&VET214&VET215&VET216&VET217&VET218&VET220&VET101&VET102&VET103&VET104&VET105&VET106&VET107&VET108&VET109&VET110&VET111
ECTS Requisite	150

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	Turgut K, Veteriner Klinik laboratuvar Teşhis
2	Karagül H, Altıntaş A, Fidancı UR, Sel T. Klinik Biyokimya, Medisan Yayınları, 2000
3	Kaneko JJ. Clinical Biochemistry of Domestic Animals, Academic press, fifth edition, 1997.

Week	Weekly Detailed Course Contents	
1	Practice	Laboratory security
2	Practice	Collection and transfer of biochemical materials
3	Practice	Assay of the blood glucose
4	Practice	Assay of the blood protein
5	Practice	Assay of the blood lipid
6	Practice	Determination and interpretation of the liver enzymes
7	Intermediate Exam	MID-TERM examination
8	Practice	Assay of P and Ca in the blood
9	Practice	Assay of Creatinine in serum
10	Practice	Assay of Uric acid in serum
11	Practice	Urine analyses
12	Practice	Analysis of urine stone
13	Practice	Thyroid functions
14	Practice	Transudate-Exudate examination
15	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	0.5	1	22.5
Lecture - Practice	15	0	1	15
Quiz	2	2	1	6



Midterm Examination	1	5	1	6
Final Examination	1	6	1	7
Total Workload (Hours)				56
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To be able to interpret and select disease-related biochemical parameters which can be used for clinical diagnosis
2	To be able to do basic biochemical tests
3	To be able to interpret the results of laboratory tests
4	Recognize and use the devices used in biochemistry laboratory
5	to be able to urine analysis and urine stone analysisand can be interpret the results

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
P4	5	5	
P19	5	5	5

