AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Liver Function Tests								
Course Code	VBY524		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	3	Workload	81 *(Hours)*	Theory	1	Practice	2	Laboratory	0
Objectives of the Course	Learn and interpret liver function and liver function tests								
Course Content	Functions, tests of secretoric functions , test of synthesis capasity, enzyme tests.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment								
Name of Lecturer(s)	Prof. Serap ÜNÜBOL AYPAK								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Karagül H., Altıntaş A., Fidancı U.R., Sel T.(2000) Klinik Biyokimya. Medisan. ANKARA.
2	Kaplan L.A, Pesce A.J, KAzmierczak S.C. Clinical Chemistry. Mosby. U.S.A.

Week	Weekly Detailed Course Contents	
1	Theoretical	Liver function overview
	Practice	The videos for liver function
2	Theoretical	Liver function tests's classification and liver function tests in situations where the necessary
	Practice	Total protein determination
3	Theoretical	Excretory function tests
	Practice	Albumin determination
4	Theoretical	Other tests that used hepatic way
	Practice	Preparation of solutions for serum protein electrophoresis
5	Theoretical	Plasma BSP purification tests and its interpretation
	Practice	serum protein electrophoresis
6	Theoretical	Hepatic anion transport
	Practice	Discussion of serum protein electrophoresis
7	Theoretical	Midterm exam
	Practice	Midterm exam
8	Theoretical	Vanden Berg reaction, bilirubin toxicity
	Practice	Bilirubin determination
9	Theoretical	Metabolic function tests
	Practice	Uric acid determination
10	Theoretical	Tests showing the presence of hepaticfibrosis
	Practice	Determination of desiyalize transferrin e
11	Theoretical	Carbohydrate metabolism tests
	Practice	Glucose determination
12	Theoretical	Protein metabolism tests
	Practice	Determination of vitamin K
13	Theoretical	Lipid metabolism tests
	Practice	Determination of total lipid
14	Theoretical	Direct Liver function tests and their systematic attempts
	Practice	Determination of ALT. GGT and AST

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	1	42
Lecture - Practice	14	0	2	28
Midterm Examination	1	3	1	4
Final Examination	1	6	1	7
			Total Workload (Hours)	81
			[Total Workload (Hours) / 25*] = **ECTS**	3
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To be able to comprehend the functions of the liver.
2	To be able to identify the conditions when liver function tests are necessary
3	To be able to comprehend how to make liver function tests
4	To be able to interpret the tests of serum enzymes in the liver diseases
5	to discussion of liver function tests

Programme Outcomes *(Biochemistry (Veterinary Medicine) Master)*	
1	To be able to tell and describe the interdisciplinary interaction with the associated fields.
2	To be able to express original ideas useing his/her higher education knowledge theoretically and practically information and to be able to creat original definations,products,methods improving and questioning these ideas.
3	To be able to manage a free research according to scientifical and metodological methods and be able to hypothetically and practically about his/her own field.
4	To be able to compose and interpret the information from different disciplines, and create solution suggestions and scientific information which can contribute to the solution process.
5	To be able to involves in professional organizations and institutions related with the educational background.
6	To be able to take responsibility for individual and group work, and do the assignments in line with the skills.
7	To be able to communicate with the professionals out of the field when it is necessary, and contribute to the solution as a team member.
8	To be able to tell about the production and publishing methods of scientific information.
9	To be able to design the source and the type of information that is needed related with the field and chooses the activities that s/he wants to participate, by using his/her critical thinking abilities that is developed in the education.
10	To be able to use technological devices both for professional and social purposes.
11	To be able to compose and interpret any kind of data related with the field (field observations, produced scientific information etc.) and analyzes and interprets the results according to the aims of the research.
12	To be able to define the environmental health rules and apply them for prevention.
13	To be able to apply the knowledge gained in professional level with the awareness of the needs of the region and the country, and develop a defense capability.
14	To be able to conceptualize the phenomena and the events related with the field; study scientific methods and techniques, interpret results; analyze and hypothesize methods in accordance with the results and design solution or treatment alternatives addressing the problems.
15	To be able to interpret the updates of information in the field by using all kinds of sources (scientific information, legislations etc.), and use when needed.

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

	L1	L2	L3	L4
P2	4	4	4	
P3	4	4	4	
P4	4	4	3	3
P7				4
P8	4	4	4	
P10				3
P11	3	3	3	
P12				4
P15	4	4	4	