



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Kidney Function Tests							
Course Code		VBY522		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course		To learn and interpret tests of renal function and renal function							
Course Content		Renal function, causes and consequences of loss of function, metabolism of urea and creatinine, glomerular function tests, tubular function tests, determination of urinary protein and urinary enzymes							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Final Examination	1	100

Recommended or Required Reading

1	Karagül H., Altıntaş A., Fidancı U.R., Sel T.(2000) Klinik Biyokimya. Medisan Yayınevi ANKARA.
2	Kaplan L.A, Pesce A.J, KAZmierczak S.C. Clinical chemistry. Mosby. U.S.A.

Week	Weekly Detailed Course Contents	
1	Theoretical	Overview to the renal function
2	Theoretical	Regulatory and endocrine functions of the kidney
3	Theoretical	Metabolic and excretory functions of the kidney
4	Theoretical	Glomerular function tests: serum or plasma creatinine levels, plasma urea level
5	Theoretical	Metabolism of urea, urea removal
6	Theoretical	Metabolism of creatine, creatinine removal
7	Theoretical	Serum urea and creatinine measurement and interpretation
8	Intermediate Exam	Midterm exam
9	Theoretical	Proximal and distal tubular function
10	Theoretical	Urine osmolarity and concentration tests
11	Theoretical	Plasma tests and the use of radiochemicals
12	Theoretical	Proteinuria
13	Theoretical	Determination of urinary protein
14	Theoretical	Urine protein / creatinine ratio
15	Theoretical	Urinary enzymes
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	0	1	15
Lecture - Practice	15	0	2	30
Term Project	1	5	0	5
Reading	2	5	0	10
Quiz	2	4	1	10
Midterm Examination	1	2	1	3
Final Examination	1	1	1	2
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	To be able to comprehend renal function
2	To be able to comprehend the metabolism of urea and creatinine.
3	To be able to make and interpret the measurement of urea and creatinine
4	To be able to comprehend and interpret the proximal and distal tubular functions
5	To be able to comprehend Urine concentration tests, urine protein and urine enzymes determination.

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 using his/her higher education knowledge theoretically and practically information and to be able to create original definitions, products, methods improving and questioning these ideas.
3	To be able to manage a free research according to scientific and methodological 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 involve 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	L5
P2	5	5	5		
P3	5	5	5		
P4	5	5	5	5	5
P7				5	5
P8	5	5	5		
P10				4	4
P11	5	5	5		

