



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Chemistry of Body Fluids and Tissues							
Course Code		VBY534		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To teach blood biochemistry, biochemical structure of urine, chemical features of cerebrospinal fluid, milk biochemistry, transudate exudate, bile and subcellular molecules.							
Course Content		Blood biochemistry, urine biochemistry, cerebrospinal fluid, milk biochemistry, transudate and exudate, synthesis and features of bile, biochemical function of subcellular fluid.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
Name of Lecturer(s)		Lec. Gamze Sevri EKREN AŞICI, Prof. Pınar Alkım ULUTAŞ							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	30
Final Examination	1	60
Quiz	2	5
Assignment	4	5

Recommended or Required Reading

1	Lippincott's Illustrated Reviews Biyokimya Seri Editörleri Richard A HARVEY, Pamela C. CHAMPE Biyokimya Çeviri Editörü Doç.Dr. Engin ULUKAYA, Nobel Tıp Kitabevleri 2007
2	Lehninger Biyokimyanın İlkeleri. David L. Nelson Michael M. COX. Çeviri Editörü Prof.Dr. Nedret KILIÇ, Palme Yayıncılık
3	Harper Biyokimya Robert K. Murray, Daryl K. Granner, Peter A. Mayes, Victor W. Rodwell. Çeviri Editörleri: Nurten DİKMEN, Tuncay ÖZGÜNEN. Nobel Tıp Kitabevi

Week	Weekly Detailed Course Contents	
1	Theoretical	Cell biochemistry
2	Theoretical	Tissue chemistry, epidermal tissue, cartilage and bone tissue
3	Theoretical	Adipose, nevre and muscle
4	Theoretical	Chemistry of body fluid
6	Theoretical	Lymph, cerebrospinal fluid, snovial fluid
7	Intermediate Exam	Midterm exam
8	Theoretical	Transudat ve eksudat
9	Theoretical	Genital fluids
10	Theoretical	Saliva
11	Theoretical	Milk, tear, sweat
12	Theoretical	Gastric and pancreatic fluids
13	Theoretical	Discussion
14	Theoretical	biochemical structure of urine
15	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	1	2	45
Term Project	4	1	1	8
Reading	15	0	2	30
Quiz	2	2	1	6
Midterm Examination	1	2	1	3



Final Examination	1	7	1	8
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To be able to comprehend biochemical structure of blood
2	To be able to explain knowledge about urine
3	To be able to comprehend milk, saliva, tear
4	To be able to comprehend the biochemical structure of stomach, pancreas, bile
5	To be able to explain transudate and exudate
6	To be able to explain cell chemistry
7	To be able to comprehend the structure of tissue
8	To be able to analyse the knowledge which has been gained.

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 creat original definations,products,methods improving and questioning these ideas.
3	To be able to manage a free research according to scientific 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	L5	L6	L7	L8
P2	5	5	5		5	5	5	5
P3	5	5	5		5	5	5	5
P4	5	5	5	5	5	5	5	5
P7				5				
P8	5	5	5		5	5	5	5
P10				5				
P11	5	5	5		5	5	5	5
P15	5	5	5		5	5	5	5

