AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Clinical Biochemistry Practices I								
Course Code	VBY612		Couse Level	Third Cycle (Doctorate Degree)					
ECTS Credit	2	Workload	50 *(Hours)*	Theory	0	Practice	2	Laboratory	0
Objectives of the Course	To learn routine tests used in clinical biochemistry and to interpret them for diagnosis and treatment of diseases								
Course Content	Measuring of serum creatinine, measuring of serum uric acid, measuring of total protein, measuring of total lipid, measuring of total cholesterol, measuring of lipoproteine, measuring of glucose, measuring of bilirubin								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, Demonstration, Discussion								
Name of Lecturer(s)	Lec. Gamze Sevri EKREN AŞICI, Prof. Pınar Alkım ULUTAŞ								

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

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 Kitabevleri

Week	Weekly Detailed Course Contents	
1	Practice	Determination of serum creatinine
2	Practice	Determination of serum urea
3	Practice	Determination of serum total protein
4	Practice	Determination of serum albumin
5	Practice	Determination of serum total lipid
6	Practice	Determination of serum cholesterol
7	Practice	Determination of serum lipoprotein
8	Practice	Midterm exam
9	Practice	Determination of blood sugar
10	Practice	Determination of glycoprotein
11	Practice	Serum uric acid determination
12	Practice	Determination of serum albumin protein
13	Practice	Determination of serum total protein
14	Practice	Determination of serum bilirubin
15	Practice	Discussion
16	Practice	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Practice	15	0	2	30
Midterm Examination	1	8	1	9
Final Examination	1	10	1	11
			Total Workload (Hours)	50
			[Total Workload (Hours) / 25*] = **ECTS**	2
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	to learn routine tests used in clinical biochemistry
2	to interpret routine tests
3	To learn the principle of serum creatinine determination and to apply
4	To learn the principle of serum uric acid determination and to apply
5	To learn the principle of serum total protein determination and to apply
6	To learn the principle of serum total lipid, cholesterol and lipoprotein determination and to apply
7	To learn the principle of serum glucose determination and to apply

Programme Outcomes *(Biochemistry (Veterinary Medicine) Doctorate)*	
1	Has a deep and broad knowledge about the field and the interdisciplinary area related with the field through the achievements gained in undergraduate and professional levels.
2	Has the knowledge to create original ideas, analyze them and develop definition/product/diagnosis methods by using the knowledge gained in undergraduate and/or professional experience, when needed.
3	Is knowledgeable about theories and practices in methodological and scientific research methods to run an independent research.
4	Excels in the laboratory, clinical and similar fields by using the theoretical and practical information gained in former education, and has the ability to create solutions in related fields.
5	Designs and develops scientific methodology for the advanced level/newly defined/emerged problems about the field.
6	Excels in the known scientific methods in the field for the advanced level/ newly defined/emerged problems.
7	Designs unique researches and implements independently.
8	Analyzes, synthesizes and evaluates the new ideas in related fields by using critical thinking.
9	Plans, creates teams and carries out the interdisciplinary research projects in order to create solutions to the known/newly defined problems.
10	Joins to congresses, panels, symposiums, workshops, seminars, article discussions and problem solving sessions in different disciplines, and exchanges information with the other professionals to contribute to the solutions.
11	Broadens the borders of scientific information by publishing scientific articles in national and/or international peer-reviewed journals.
12	Creates new ideas and methods to contribute to the technological, social and cultural progress, or to help the development of information society by using the theoretical, practical, independent research, abilities responsibly.
13	Designs and implements social projects with the awareness of creating an information society.
14	Compiles and interprets any type of data (field observation, scientific knowledge etc.) in accordance with the aims.
15	Develops and uses strategies about related topics with the field.
16	Implements and defends institutional and practical information and abilities in accordance with the needs of the country and the world, and changes when necessary.
17	Follows up and uses all the updates about the field (scientific information, legislations etc.), and has the qualification to change them.
18	Adopts lifelong learning as a principle and acknowledges that the information gained through research is the most valuable gain.

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
P3	3	3	3	3	3	3	3
P8	3	3	3	3	3	3	3
P14	3	3	3	3	3	3	3
P18	3	3	3	3	3	3	3