



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Clinical Biochemistry Practices II							
Course Code		VBY613		Course 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		Liver function tests, kidney function tests, bone metabolism tests, measuring of macro and trace elements in serum							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Experiment, Demonstration, Discussion, Problem Solving					
Name of Lecturer(s)		Prof. Funda KIRAL							

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	Serum ALT analysis
2	Practice	Serum AST analysis
3	Practice	Serumda GPT tayini
4	Practice	Serum ALP analysis
5	Practice	Determination of serum hydroxyproline
6	Practice	Determination of serum Ca and P
7	Practice	Determination of serum Ca and P
8	Practice	Midterm exam
9	Practice	Determination of serum Cl
10	Practice	Determination of serum K
11	Practice	Determination of serum Cu
12	Practice	Determination of serum Zn
13	Practice	Determination of serum Fe
14	Practice	Determination of serum F
15	Practice	Determination of serum Se
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 liver function test and to apply
4	To learn the principle of kidney function test and to apply
5	To learn the principle of bone metabolism tests and to apply
6	To learn the principle of measuring of macro and trace elements in serum 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
P3	3	3	3	3	3	3
P8	3	3	3	3	3	3
P14	3	3	3	3	3	3
P18	3	3	3	3	3	3

