



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Biochemistry of Metabolic Disease							
Course Code		VBY633		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	5	Workload	127 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Aimed to describe diseases caused by disturbances in metabolism.							
Course Content		The causes of diseases caused by disorders in the metabolism, incidence, the formation mechanism							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Individual Study					
Name of Lecturer(s)		Lec. Gamze Sevri EKREN AŞICI							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	20
Final Examination	1	60
Quiz	1	10
Assignment	4	10

Recommended or Required Reading

1	1-Temel Klinik Biyokimya(Prof. Dr. Bahattin ADAM, Dr. Zeynep GÖKER, Dr. Yasemin ARDIÇOĞLU),
2	2-Lippincott Biyokimya 3. Baskı(Doç. Dr. Engin ULUKAYA),
3	3-The biochemistry of cell signalling (Helmreich, E. J. M.),
4	4- Subcellular biochemistry(Ed.: Harris, J. Robin)

Week	Weekly Detailed Course Contents	
1	Theoretical	Diabetes
2	Theoretical	Ketosis
3	Theoretical	Steatohepatitis
4	Theoretical	Obesite
5	Theoretical	Jaundices
6	Theoretical	Hypocalcemia, hypercalcemia
7	Theoretical	Diseases of bone metabolism
8	Intermediate Exam	Midterm exam
9	Theoretical	Thyroid diseases
10	Theoretical	Antioksidative metabolism
11	Theoretical	Biochemistry of Cancer
12	Theoretical	Cushing syndrome
14	Theoretical	Metabolic acidosis, metabolic alkalosis
15	Theoretical	Inflammatory markers
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	4	5	2	28
Reading	4	6	2	32
Quiz	2	5	0.5	11
Midterm Examination	1	10	1	11



Final Examination	1	16	1	17
Total Workload (Hours)				127
[Total Workload (Hours) / 25*] = ECTS				5
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Metabolic disorders that can cause disease to be informed about
2	Gain the ability to compare results with theoretical knowledge in clinical biochemistry
3	To learn the mechanism of diabetes formation
4	To learn the mechanism of obesity formation
5	To have knowledge about thyroid diseases

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
P1	5	5	5	5	5
P3	4	4	4	4	4
P5	4	4	4	4	4
P8	5	5	5	5	5
P13	4	4	4	4	4
P18	5	5	5	5	5

