Course Name	Code	Semester	Theory (hrs/week)	Application (hrs/week)	Laboratory (hrs/week)	ECTS
Hunger and Satiety State of Metabolism	BIK517	Spring	1	0	0	3
Prerequisites	No					
Course language	Turkish					
Course Type	Optional					
Learning and teaching techniques of the course	Lecture, question-answer, brainstorming, discussion					
Course instructor(s)	Assist. Asst. Prof. Meltem GÜNGÖR					
Course objectives	It is the examination of carbohydrate, lipid and protein metabolism of liver, muscle, brain and adipose tissue in states of hunger and satiety of the body.					
Learning outcomes of the course	1. Describes the metabolic states of the body 2. Explain the secretion of glucagon and its metabolic effects 3. Explain the secretion of insulin and its metabolic effects 4. In case of hunger and satiety, fat, muscle and brain tissue, liver; Explain carbohydrate, lipid and protein metabolism					
Resources	1. Gürdöl F, Ademoğlu E. Biochemistry. Nobel Medical Bookstores, 4. Edition, 2019 2. Nelson DL, Cox MM. Lehninger Principles of Biochemistry, W.H. Freeman; 7th Ed., 2017 4. Rodwell VW, Bender DA, Botham KM, kennelly PJ, Weil PA. Harper's Illustrated Biochemistry, McGraw-Hill Education, 31th Ed. 2018 5. Onat T, Emerk K, Sözmen EY. Human Biochemistry, Palme Publishing, 2. Edition, 2006 6. Moran LA, Horton HR, Scrimgeour KG, Perry MD. Principles of Biochemistry. 5.baskı. Pearson Education, USA, 2012. 7. Berg JM, Tymoczko JL, Strayer L. Biochemistry. 7. Baskı. W.H. Freeman and Company, USA, 2012. 8. Nelson DL, Cox MM. W. H. Lehninger Principles of Biochemistry. 1.baskı. W.H. Freeman and Company, USA, 2008					

Weekly Course Topics:

WEEKS	TOPICS TO BE DISCUSSED
1. Week	Metabolic states of the body
2. Week	Glucagon secretion
3. Week	Metabolic effects of glucagon
4. Week	Metabolism of adipose tissue in a state of starvation
5. Week	Liver metabolism in a fasted state
6. Week	Metabolism of muscle tissue in a state of starvation
7. Week	Brain tissue metabolism in a state of starvation
8. Week	Advanced state of starvation
9. Week	Insulin secretion
10. Week	Metabolic effects of insulin
11. Week	Metabolism of adipose tissue in case of satiety
12. Week	Hepatic metabolism in case of satiety

13. Week	Muscle metabolism in a state of satiety
14. Week	Brain Metabolism in a state of satiety
15. Week	**Final Exam**

Student Workload Table

Events	Number	Time	Total Workload
Lesson	14	1	14
Laboratory			
Application			
Fieldwork			
Out-of-Class Study Time (Freelancing/Group Work/Pre-Study)	10	5	50
Presentation (Shooting videos/Preparing posters/Making Oral Presentations/Focus Group Interviews/Conducting Surveys/Observation and Report Writing)	1	6	6
Seminar Preparation			
Project			
Case Study			
Role Playing, Dramatizing			
Writing an article-Criticizing			
Mid-term exams	1	5	5
Final exams			
Total workload (hours) / 25(s)	75 seconds /25 seconds =3		
Ders ACT	**3**		

Evaluation System

Semester Studies	**Number**	**Contribution**
Midterm Exam	1	%40
Quiz		
Laboratory		
Application		
Fieldwork		
Course-Specific Internship (If Available)		
Assignments		
Presentation and Seminar		
Projects		
Other		
Total of Semester Studies		%40
Final Work		
Finale		
Homework		
Application	1	%60
Laboratory		
Total of Final Studies		%60
The Contribution of Semester Studies to the Success Grade		%40
The Contribution of the Final Exam to the Success Grade		%60
Sum of Success Grade		**100**

THE RELATIONSHIP BETWEEN COURSE LEARNING OUTCOMES AND PROGRAM COMPETENCIES

No	PROGRAM QUALIFICATIONS	Learning Outcomes			
		ÖÇ1	ÖÇ2	ÖÇ3	ÖÇ4
1	Have up-to-date knowledge at the level of expertise in the field of medical biochemistry based on undergraduate level competencies, develop and deepen them.	5	5	5	5
2	Have knowledge about information technologies, technical equipment and devices and instruments specific to the field at the level required by the field of medical biochemistry	2	2	3	3
3	Integrates the knowledge in the field of medical biochemistry with the information from different disciplines and interprets it to create new information, analyzes and synthesizes using different research methods and proposes solutions.	4	4	4	4
4	He writes the report of his research.	3	3	3	3
5	Plans and conducts experimental research.	4	4	4	4
6	Constructs issues that require expertise in the field of medical biochemistry, proposes solutions, solves problems, evaluates the results obtained and applies them when necessary.	4	4	5	5
7	Conducts scientific, clinical and/or descriptive research/presentation/publication on priority issues related to the field of medical biochemistry and public health.	5	5	5	5
8	Critically evaluates the information related to the field of medical biochemistry and directs learning.	5	5	5	5
9	Apply the principles of professional development and lifelong learning related to the field of medical biochemistry in the studies they carry out.	5	5	5	5
10	Discuss and share their knowledge, current developments and their own studies in the field of medical biochemistry with groups in the same field or outside the same field in a systematic way in written, oral and visual forms.	5	5	5	5
11	Critically examines the social relations in the professional and professional environment and the norms that guide these relations and does what is necessary to improve them.	5	5	5	5
12	Observes and teaches social, scientific and ethical values in the stages of collecting, recording, interpreting and announcing data related to the field of medical biochemistry.	5	5	5	5
13	Evaluates current developments in the field of medical biochemistry in line with national values and country realities, including the child and family, which are the basic units of society.	5	5	5	5

14	Knows the importance of ethical principles and ethical committees for the individual and society, and behaves ethically.	4	4	4	4
15	Develops strategies, policies and implementation plans on issues related to the field of medical biochemistry and evaluates the results obtained within the framework of quality processes.	5	5	5	5
Qualification level: 1: Low, 2: Low/Medium, 3: Medium, 4: High, 5: Excellent					