

# CLINIC BIOCHEMISTRY

1	Course Title:	CLINIC BIOCHEMISTRY
2	Course Code:	TLTZ204
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	2
6	Semester:	4
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	4.00
10	Laboratory (hour/week):	0
11	Prerequisites:	none
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. MELEHAT DİRİCAN
15	Course Lecturers:	Prof.Dr. Melahat DİRİCAN, Prof. Dr.Emre SARANDÖL
16	Contact information of the Course Coordinator:	Doç.Dr.Arzu YILMAZTEPE ORAL-arzuy@uludag.edu.tr 2953921 Uludağ Üniversitesi Tıp Fakültesi Temel Tıp Bilimleri Binası, Tıbbi Biyokimya Anabilim Dalı, 16059, Nilüfer-Bursa
17	Website:	
18	Objective of the Course:	to have knowledge about test parameters being studied in clinical biochemistry laboratories and associated diseases
19	Contribution of the Course to Professional Development:	To know the frequently used biochemical parameters and their intended use
20	Learning Outcomes:	
	1	To know the tests used in clinical biochemistry laboratories
	2	Having knowledge about the diseases associated with clinical biochemistry laboratory tests
	3	To be able to perform the tests used in clinical biochemistry laboratories
	4	Knows the quality control processes in the clinical biochemistry laboratory
	5	Knows possible sources of error in the clinical laboratory
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21	Course Content:	
	<b>Course Content:</b>	
Week	Theoretical	Practice
1	Quality control in the laboratory	Sample Admission and Registration
2	Liver and Kidney Function Tests	Autoanalyzers
3	Tumour markers	Autoanalyzers

4	Thyroid function tests	Hematological Analysis
5	Enzymes in clinical diagnosis	Hematological Analysis
6	Plasma lipids and clinical pre-emi	Urine and stool analysis
7	And disorders of carbohydrate metabolism (DM diagnostic tests)	Urine and stool analysis
8	The clinical significance of plasma proteins	Hormone Analysis
9	Cardiac markers/ Emergency laboratory and testing	Hormone Analysis
10	Biochemistry of cerebrospinal fluid and other body fluids	Manual Analysis
11	Hemoglobine /Hematological parameters and Hemoglobinopathies	Emergency Laboratory
12	Metabolism of Bilirubin	Emergency Laboratory
13	Metabolism of Iron and anemias	Allergy testing
14	Screening tests	Allergy testing

22	Textbooks, References and/or Other Materials:	Biyokimya Laboratuvarı El Kitabı, Prof. Dr. İdris Mehmetoğlu Mannipal Manual of Clinical Biochemistry, Shivananda Nayak B  Ukey lecture notes <a href="https://ukey.uludag.edu.tr/Home?ReturnUrl=%2f">https://ukey.uludag.edu.tr/Home?ReturnUrl=%2f</a>
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23	Assesment
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TERM LEARNING ACTIVITIES		NUMBER	WEEK		
Activites		Number	Duration (hour)	Total Work Load (hour)	
Quiz		0	0.00		
Theoretical		14	2.00		28.00
Home work project		0	0.00		
Practicals/Labs		14	4.00		56.00
Final Exam		1	0.00		
Self study and preperation		14	1.00		14.00
Total		2	100.00		
Homeworks		0	0.00		0.00
Contribution of Term (Year) Learning Activities to Success Grade		0	0.00		0.00
Field Studies		0	0.00		0.00
Midterm exams		1	10.00		10.00
Total		100.00			
Others		0	0.00		0.00
Measurement and Evaluation Techniques Used in the Final Exams			15.00		15.00
Total Work Load					123.00
24 ECTS/WORK LOAD TABLE					4.10
Total work load/ 30 in					
ECTS Credit of the Course					4.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	4	3	4	1	1	1	1	3	3	1	1	1	0	0	0	0
ÖK2	1	1	1	4	5	4	1	3	1	1	3	1	0	0	0	0
ÖK3	3	3	1	3	3	3	3	3	1	1	3	1	0	0	0	0
ÖK4	3	3	1	4	4	5	4	4	4	3	4	3	0	0	0	0

ÖK5	2	3	4	4	4	5	5	3	1	1	1	1	0	0	0	0
LO: Learning Objectives   PQ: Program Qualifications																
Contrib ution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							