TOROS ÜNİVERSİTESİ

Vocatıonal School
Medıcal Laboratory Techniques

Course Information

CLINICAL BIOCHEMISTRY II					
Code	**Semester**	**Theoretical**	**Practice**	**National Credit**	**ECTS Credit**
		Hour / Week			
TLT206	Spring	2	2	3	4

Prerequisites and co-requisites	
Language of instruction	Turkish
Type	Required
Level of Course	Associate
Lecturer	Lec. Dr. Ümit YAŞAR
Mode of Delivery	Face to Face
Suggested Subject	
Professional practise (internship)	None
Objectives of the Course	Teaching the metabolysim of biochemical molecules and emerging the relations of biochemical molecules with dieseas and clinic.Teaching the differential diagnoses of dieseas and qualitative and quantitative analyses of biochemical parameters related with diseseas
Contents of the Course	Importance of clinical biochemistry/Water,sodium and potassium balance/Globular and fibrious proteins/Structure of hemoglobin and anemias/Lipid metabolysim disorders /Carbohydrate metabolism disorders/Cardiovascular disordres/Plasma proteins/Enzymes and relations with dieseas/Liver function and disorders/Calcium phosphate and magnesium balance

Learning Outcomes of Course

#	Learning Outcomes
1	Understanding the differential diagnosis of dieseas and quantitative determination of biochemical parameters involved in diseases.
2	Learning the relation between the occurence of diseases and the metabolism of biochemical molecules.
3	Learning how serum levels of biochemical parameters are related to diseases
4	Learning how laboratory techniques are affected diagnosis

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Importance of Clinical Biochemistry	Lecture, discussion, presentation
2	Globular, fibrous proteins and their relations with dieseas	Lecture, discussion, presentation
3	Carbohydrate metabolism disorders	Lecture, discussion, presentation
4	Lipid metabolism disorders	Lecture, discussion, presentation
5	Lipid metabolism disorders	Lecture, discussion, presentation
6	Cardiovascular dieseas	Lecture, discussion, presentation
7	Midterm Exam	
8	Enzymes and their importants in clinic diagnosis	Lecture, discussion, presentation
9	Enzymes and their importants in clinic diagnosis	Lecture, discussion, presentation
10	Liver function and disorders	Lecture, discussion, presentation

11	Liver function and disorders	Lecture, discussion, presentation
12	Calcium, phosphate and magnesium balance	Lecture, discussion, presentation
13	Hormones	Lecture, discussion, presentation
14	Hormone metabolism	Lecture, discussion, presentation
15	Exam preparation	Lecture, discussion, presentation
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Course presentation documents		
2			

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Understanding the differential diagnosis of dieseas and quantitative determination of biochemical parameters involved in diseases.	3,4	1,2
2	Learning the relation between the occurence of diseases and the metabolism of biochemical molecules.	5,7	1,2
3	Learning how serum levels of biochemical parameters are related to diseases	5,6	1,2
4	Learning how laboratory techniques are affected diagnosis	4,5	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	4	56
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	4	56
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	3	3
8	Midterm Exam	1	1	1
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	3	3

16	Final Exam	1	1	1
				120