

International School of Medicine / Medicine (English)

2023 - 2024 Academic Year

BIOCHEMISTRY**Syllabus**

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
BIOCHEMISTRY	ISM2014707	Yearly	42+12	0	3
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Committee Course				
Course Coordinator	Assoc.Prof. Sultan Sibel ERDEM				
Name of Lecturer(s)	Assoc.Prof. Sultan Sibel ERDEM, Assoc.Prof. Saime BATIREL, Assist.Prof. Nihan VERİMLİ				
Assistant(s)	Asst.Prof. S.Sibel ERDEM, Asst.Prof.Perinur BOZAYKUT EKER				
Aim	To teach biochemical changes and measurement parameters related to hemogram, hemostatic system, digestion of macromolecules, salivary biochemistry, endocrine system and urogenital system.				
Course Content	This course contains; Biochemistry of anemias in different conditions.,Metabolism of lipoproteins.,Hyperlipidemia and atherosclerosis.,Nitrogen compounds and digestion./Mineral metabolism.,Digestion of lipids and disorders of lipid metabolism.,Lipids and lipoproteins.,Digestion and absorption of carbohydrates./Metabolic disorders of carbohydrates.,Gastrointestinal function tests./Liver function tests.,Proteins in diet and nitrogen metabolism. / Amino acid metabolism.,Nucleotide metabolism./Porphyrins, bile pigment and jaundices.,Blood glucose..				
Course Learning Outcomes		Teaching Methods	Assessment Methods		
		16, 17, 19, 9	A, D, E, G		
		16, 17, 19, 9	A, D, E, G		
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Teaching Methods	16: Question - Answer Technique, 17: Experimental Technique, 19: Brainstorming Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, D: Oral Exam, E: Homework, G: Quiz				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Biochemistry of anemias in different conditions.	references 1,2,3,4,5			
2	Metabolism of lipoproteins.	references 1,2,3,4,5			
3	Hyperlipidemia and atherosclerosis.	references 1,2,3,4,5			
4	Nitrogen compounds and digestion./Mineral metabolism.	references 1,2,3,4,5			
5	Digestion of lipids and disorders of lipid metabolism.	references 1,2,3,4,5			
6	Lipids and lipoproteins.	references 1,2,3,4,5			

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Lecture Schedule		
Sequence	Topics	Preliminary Preparation
7	Digestion and absorption of carbohydrates./Metabolic disorders of carbohydrates.	references 1,2,3,4,5
8	Gastrointestinal function tests./Liver function tests.	references 1,2,3,4,5
9	Proteins in diet and nitrogen metabolism. / Amino acid metabolism.	references 1,2,3,4,5
10	Nucleotide metabolism./Porphyrins, bile pigment and jaundices.	references 1,2,3,4,5
11	Blood glucose.	references 1,2,3,4,5
Evaluation Methods		Weight(%)
Midterm Exam		40
General Exam		60

Resources