

**DEPARTMENT FOR MEDICAL CHEMISTRY AND BIOCHEMISTRY**

(Performance plan – hours: academic year 2021/.2022.)

Head of department: Prof. Ivanka Mikulić, PhD

<b>UNIVERSITY OF MOSTAR SCHOOL OF MEDICINE</b>		<b>INTEGRATED UNIVERSITY STUDY</b>	
<b>SOURCE:</b>	<b>Clinical Biochemistry</b>		
<b>Year: II</b>	<b>Semester:</b>	<b>III</b>	
<b>Course Level:</b>			ECTS Points: 1,5
<b>Course Status:</b>	Class form: total 25 hours ( L+S:15+10)		

Signature Requirements: Regular attendance of lectures, seminars  
 Consultation terms: by agreement

Scheduled lessons: 26.6.2023. – 28.6 2023.

Teachers: Ass.prof. Ivanka Mikulić, PhD  
 Vinka Mikulić, mag. chem.  
 Kristina Ljubić, mag. chem.  
 Ana Ćuk, mag. Forensic and mol.biology  
 MSE – Classroom for Medical Studies in English

Date/Day/ Time	Theme	L S	Group	Teacher/ associate	Classroom
<b>June 26th. 2023. (Monday)</b>					
08:30-09:15	Electrolytes and body fluids	L1	A	Ivanka M	MSE
09:15-10:45	Clinical Biochemistry od diabetes	L2	A	Ivanka M	
10:45-11:30	Acid-base balance	L3	A	Ivanka M	
11:30-12:15	Trace elements	L4	A	Ivanka M	
12:15-13:00	Molecular genetics and diagnosis of hereditary disease			Ana Ć	
<b>June 27th. 2023. (Tuesday)</b>					
08:30-10:00	Clinical diagnosis of thyroid hormone and steroids hormone	L5	A	Ivanka Mikulić	
10:00-10:45	Laboratory diagnosis of ketecolamine	L6	A	Ivanka M	MSE

10:45-12:15	Seminars	L7	A	Ivanka M	
12:15-13:00	Laboratory diagnosis of kidney disease	L8	A	Vinka M	
13:00-13:45	Laboratory diagnosis of allergies	L9	A	Vinka M	
13:45-14:30	Clinical toxicology	L10	A	Ana Ć	
14:30-15:15	Serum markers of tumor growth			Ana Ć	
15:15-16:45	Seminars			Ana Ć	
<b>June 28th. 2023.(Wednesday)</b>					
08:30-09:15	Laboratory diagnosis of cardiovascular disease	L11	A	Ivanka M	
09:15-11:30	Seminars	L12	A	Ivanka M	MSE
11:30 – 12:15	Laboratory diagnosis of calcium, PTH, and vitamin D	L13	A	Vinka M	
12:15-14:30	Seminars	S	A	Vinka M	

## Literature (2022./2023.)

### *Required literature:*

For the course Medical Biochemistry is necessary:

1. Murray RK, Bender DA, Botham KM, Kennelly PJ, Rodwell VW and Weil A.; Harper's Illustrated Biochemistry , 31ST EDITION, 2018.
2. Streyer L. Biochemistry, 6th ed. WH Freeman and Company, New York, 2011.

### *Optional literature:*

1. Streyer L. Biochemistry, 5th ed. WH Freeman and Company, New York, 2001.
2. Michael Lieberman, Allan D. Marks, Colleen Smith: Mark'S Basic Medical Biochemistry , 2005

## I. TOPICS OF LECTURES

a) The main learning guide is a CD of complete lectures from biochemistry.

b) According to required literature

## SEMINARS

Solving tasks and issues after certain thematic units; individual presentations of the seminar work of the respective subject, of each individual student.