



**UNIVERSITY OF BANJA LUKA**  
**FACULTY OF MEDICINE**  
Department of Medical Biochemistry



School year	Subject	Subject code	Study program	Study cycle	Year of studies	Semester	Number of students	Number of groups
2024/2025	Medical biochemistry and chemistry		Medicine	First	Second	IV	63	3

**CLASS SCHEDULE**

Week	Lecture	Subject name	Day	Date	Time	Place	H	Teacher
I	L1	Metabolism of amino acids	Saturday	22.2.2025.	14.00-16.15	Amphitheatre, Faculty of Medicine	3	Vesna Ćorić, Assistant professor
II	L2	Lipid metabolism - synthesis of fatty acids, synthesis triacylglycerol, $\beta$ -oxidation of fatty acids, metabolism ketone bodies	Saturday	1.3.2025.	12:00-14:15	Amphitheatre, Faculty of Medicine	3	Professor Marija Matić
III	L3	Cholesterol metabolism, lipoprotein metabolism	Saturday	1.3.2025.	14:15-16:30	Amphitheatre, Faculty of Medicine	3	Professor Marija Matić
IV	L4	Purine and pyrimidine metabolism. DNA-	Saturday	22.3.2025.	12:00-14:15	Amphitheatre, Faculty of Medicine	3	Professor Marija Matić

		organization and replication						
V	L5	RNA- structure, synthesis and processing	Saturday	22.3.2025.	14:15-16:30	Amphitheatre, Faculty of Medicine		Professor Marija Matic
VI	L6	Biological membranes, transport at the membrane level. Apoptosis.	Saturday	5.4.2025.	12:00-14:15	Amphitheatre, Faculty of Medicine	3	Vesna Ćorić, Assistant professor
VII	L7	Signal transmission and signal cascade.	Saturday	5.4.2025.	14:15-16:30	Amphitheatre, Faculty of Medicine	3	Vesna Ćorić, Assistant professor
VII	L8	Translation, processing and degradation of proteins	Saturday	12.4.2025.	12:00-14:15	Amphitheatre, Faculty of Medicine	3	Professor Marija Matic
IX	L9	Regulation of gene expression	Saturday	12.4.2025.	14:15-16:30	Amphitheatre, Faculty of Medicine	3	Professor Marija Matic
X	L10	Hormones - definition, division. Regulation at the level hypothalamus and pituitary gland	Saturday	25.4.2025.	12:00-14:15	Amphitheatre, Faculty of Medicine	3	Vesna Ćorić, Assistant professor
XI	L11	Pancreatic hormones	Saturday	25.4.2025.	14:15-16:30	Amphitheatre, Faculty of Medicine	3	Vesna Ćorić, Assistant professor
XII	L12	Autocrine and paracrine hormones. Gastrointestinal hormones.	Saturday	17.5.2025.	12:00-14:15	Amphitheatre, Faculty of Medicine	3	Vesna Ćorić, Assistant professor

XIII	L13	Metabolic roles of the liver. Metabolism of ethanol. Biochemical characteristics of erythrocytes. Oxidative stress.	Saturday	17.5.2025.	14:15-16:30	Amphitheatre, Faculty of Medicine	3	Vesna Ćorić, Assistant professor
XII	L12	Adrenal hormones. Sex hormones.	Saturday	24.5.2025.	12:00-14:15	Amphitheatre, Faculty of Medicine	3	Professor Marija Matić
XIII	L13	Thyroid hormones. Parathyroid hormone. Vitamin D. Endocrine function of the kidneys	Saturday	24.5.2025.	14:15-16:30	Amphitheatre, Faculty of Medicine	3	Professor Marija Matić

Week	Practical	Type of practical	Subject name
I	P1	PE	Determination of total protein concentration in serum
II	P2	PE	Albumin. Determination of the concentration of albumin and globulins in blood serum. Albumin:globulin ratio.
III	P3	PE	Quantitative determination of serum triacylglycerols
IV	P4	PE	Quantitative determination of serum cholesterol Determination of HDL and LDL cholesterol
V	P5	PE	Determination of direct and indirect bilirubin
VI	P6	PE	Liver function examination Determination of activity of alanine aminotransferase and aspartate amino- transferase
VII	P7	PE	Quantitative determination of urea in serum and urine.
VIII	P8	PE	Creatinine.

IX	P9	PE	Electrolites in serum
X	P10	PE	Vitamins.
XI	P11	PE	DNA analysis.
XII	P12	PE	Urine analysis 1.
XIII	P13	PE	Urine analysis 2.
XIV	P14	PE	Practical colloquium.

**Teacher:**