

MEDICAL BIOCHEMISTRY 1
2nd COURSE
Academic year 2026/2027 (Winter semester)

LECTURES

WEEK	DATE	TOPIC
1.	15. 09. 2026	Introduction into metabolic processes. Metabolism of carbohydrates 1 – digestion, absorption, regulation, metabolism of glycogen
2.	22. 09. 2026	Metabolism of carbohydrates 2 – metabolism of glucose
3.	29. 09. 2026	Metabolism of carbohydrates 3 – pentose phosphate pathway, fructose, galactose, glucuronic acid, proteoglycans and glycoproteins metabolism.
4.	06. 10. 2026	Production of acetyl CoA and citric acid cycle
5.	13. 10. 2026	Biological oxidations
6.	20. 10. 2026	Respiratory chain and ATP production
7.	27. 10. 2026	Metabolism of lipids – digestion, absorption, regulation. Metabolism of fatty acid, fatty acids with odd number of carbon atoms, regulation
8.	03. 11. 2026	Metabolism of lipids – metabolism of triacylglycerols, phospholipids and glycolipids, regulation
9.	10. 11. 2026	Metabolism of cholesterol
10.	17. 11. 2026	Metabolism of ketone bodies and metabolism of lipoproteins
11.	24. 11. 2026	Metabolism of unsaturated fatty acid, metabolism of eicosanoids
12.	01. 12. 2026	CREDIT-BEARING TEST (lectures 1 – 10)
13.	08. 12. 2026	Metabolism of nucleotides