Course title	Basic Biochemistry			
Course code	Semester	ECTS	Lectures/ classes	
13.1.1450	summer	2	Lectures: 15 hours	
Name of the lecturer and contact	prof. UG, dr hab. Joanna Skórko-Glonek; dr hab. Ewa Laskowska, profesor			
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Prerequisites	Basic knowledge of inorganic and organic chemistry			
Course description	The overall goal of this course is to gain a basic knowledge of the structure and function of macromolecules (proteins, nucleic acids, carbohydrates, lipids) and main biochemical processes. Structure of proteins, nucleic acids, carbohydrates and lipids. Function of selected proteins. Enzymes-kinetics, catalytic and regulatory strategies. Main metabolic pathways: glycolysis and gluconeogenesis, citric acid cycle, oxidative phosphorylation, pentose phosphate pathway, lipid metabolism. Regulation and integration of metabolic pathways.			
Learning outcomes	Knowledege: describes the structure and properties of basic types of biological macromolecules and molecular mechanisms and regulation of the basic metabolism pathways Skills: learns independently, in a targeted manner, can use biochemical terms in a way that is comprehensible and accessible for specialists, as well as people outside the group of specialists			