

Name of university, Name of faculty: Trnava University
Faculty of Health Care and Social Work

INFORMATION SHEET OF THE SUBJECT

Code: VZB05		Name: Biochemistry			
Cover: Department of Public Health					
Type of educational activity: Seminar Scope of educational activity (in hours): Weekly: 1 For term of study: LS 30 Method of educational activity:				Number of credits: 2	Recommended semester: ST
					Study grade: Bachelor
Recommended semester	Study programme				
1.year ST	Public Health (D1-VZ-22) Public Health (D1-VZ-22-K)				
Underlie subjects:					
Conditions for passing the course: Method of evaluation: Completion by taking an examination Continuous evaluation: Final evaluation: Final evaluation: test A: 100- 95%, B: 94- 89%, C: 88- 83%, D: 82 – 77%, E: 76 – 71%, Fx: 70% and less In case of online learning, the online exam in Moodle.					
Finished:					
Learning outcomes: The result of the study of the subject of Biochemistry is to master the basic concepts and knowledge in the field of biochemistry. The student knows and can define the structure and function of the main components of the cell, the conservation and expression of genetic information, the metabolism of the human organism, the significance and effects of macro and micronutrients.					
Schedule of subject: 1. The cell, water and acid-base balance 2. Amino acids and their metabolism, proteins 3. Enzymes 4. Carbohydrates 5. Fatty acids, lipids, lipids and cholesterol metabolism 6. Nucleic acids, DNA replication, RNA synthesis 7. Metabolism characteristics, bioenergy, phosphates, oxidation and reduction 8. Vitamins, minerals, hormones and their effects on the human body 9. Glycolysis, pentose phosphate pathway 10. Citric acid cycle, electron transport, oxidative phosphorylation 11. Gluconeogenesis, 12. Glycogen metabolism					
Recommended reading: Dobrota, D. a kol.: Lekárska biochémia, 2016 Murray, R. K. a kol.: Harperova ilustrovaná biochemie, 2012					
Language requirements: Slovak					
Notes: Daily form, attendance method of education Daily form, combined method of education: through assignments in Moodle/online, distance learning, self-study, exercises /in-person/ Self-study is supported by e-learning online, e.g. test or oral exam via MOODLE 100% attendance is required.					
Course evaluation:					
Assessed students in total: 384					
A	B	C	D	E	FX
10%	18%	21%	19%	18%	14%
Lecturers: RNDr. Mgr. et Mgr. Nicholas Martinka, PhD., examiner, instructor					

Date of last change: 01.09.2026

Approved by: doc. PhDr. Róbert Ochaba, PhD., MPH, univ.prof.