Subject	Biochemistry of exercise			
Туре	Туре	Semester	ECTS	
	MANDATORY (M)	I	3	
Lecturer	Dr.Sc. Kujtim Thaçi			
Goals and objectives	The course aims to provide an advanced understanding of the core principles and topics of Biochemistry and their experimental basis, and to enable students to acquire a specialised knowledge and understanding of selected aspects by means of a stem/branch lecture series Through problem sets, exams, and seminars and quizes, students will demonstrate the ability to engage in scientific as well as quantitative and qualitative reasoning. Students will also demonstrate the ability to communicate science in writing.			
Learning outcomes	<ul> <li>After successful completion of the course, student will know:</li> <li>✓ Knowledge and understanding of basic principles of biochemistry</li> <li>✓ Cognitive skills (thinking and analysis) Thinking and analysis will be developed through solving case studies and problems</li> <li>✓ Communication skills (personal and academic) Through experiment work within a group</li> <li>✓ Practical and subject specific skills (Transferable Skills). Practical skills will be developed through experimentation work.</li> <li>✓ Exhibit a knowledge about differences of body chemistry levels under normal and unnormal conditions</li> <li>✓ Accurately record and report results, indicating normal and abnormal values.</li> </ul>			
Content	Java       Topics         1       Syllabus Presentation         2       Modern clinical biochemistry laboratory         3       Structure and metabolism of carbohydrates         4       Glukose metabolism and the pathophysiology of diabetes mellitus         5       Structure and metabolism of proteins         6       Structures and metabolism of lipids         7       Structure and metabolism of hormones         8       Mid-exam – 1         9       Enzymes         10       Vitamins 10         11       Water and electrolytes         12       Metabolism of ethanol         13       Structure of nucleic acids         14       Biology of Cancer-Types of cancer			
Teaching/learning methods	15     Mid-exam – 2       Activity		Weight (%) 30% 20% 20% 30%	
Methods of Evaluation	Methods of evaluation:%Participation10%a) Medium-term exam-140%b) Medium term exam - 240%Course design (developing a training program for a certain group with disabilities)10%			
Sources	Sources Lectures Presantations Web of Science PubMed		Number 1 1 1 1 1	

	Scopus		1
ECTS Workload	Activity	Weekly hours	Workload
	Lectures	2	24
	Lab	1	12
	Course project	n/a	14
	Independent work	n/a	25
Literature	<ol> <li>[Peter_Rae]_Clinical_Biochemistry_Lecture_Notes 2018</li> <li>William J.Marshall. Clinical biochemistry Metabolic and clinical aspects . Third edition 2014 Materiali i nevojshëm për kurs/Librat tjera për lexim Recommended Course Material(s)/Reading(s)/Other</li> <li>(Allan Gaw, Michael J.Murphy).Clinical biochemistry AN ILLUSTRATED COLOUR TEKST.Fifth edition 2013(Përkthim shqip)</li> </ol>		
Ethical standards	This course follows the UBT College Code of Ethics, requiring all students to behave accordingly. Any instance of academic misconduct, including but not limited to fraud, plagiarism, or other forms of dishonesty, will lead to significant penalties like failure of specific assessment or the entire course, as well as further disciplinary measures in line with UBT College's academic integrity policies.		
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