



Course ID: HDOB13	Course name: SELECTED TOPICS IN BIOCHEMISTRY – HORMONES AND METABOLISM		
Cycle: THIRD	Year: FIRST	Semester: I	ECTS credits: 15
Course status: MANDATORY		Total course hours: 90 Lectures: 45 Laboratory: 45	
Teaching participants:	Teachers and associates with expertise in the field of dynamic biochemistry		
Prerequisite for enrollment:	-		
Course aims:	Familiarize the students with role which bioregulators of metabolic chemical reaction play at normal function of the cell, tissues and organs, as well as in changed compromised pathochemical stages.		
Thematic course units:	Biochemistry of intermediate metabolism. Hormones and autoimmuno-pathologic stages Algorithms of pathochemical stages in adrenal gland; corticosteroid hormones and catecholamines. Biochemistry and physiology of pituitary. Principles of feedback mechanisms. Diffuse hormonal system. Biochemistry and pathochemistry of pancreatic cells. Biochemistry and pathochemistry of thyroid gland. Algorithms of function and dysfunction of thyroid gland. Normal and abnormal metabolism of lipids. Biochemistry of bone tissue and calcium metabolism.		
Teaching methodology:			
Assessment methods and grading system¹:	Grading criteria		
	Criteria	Maximal score	Required score
	1. Class attendance		
	2. Class activities		
	3. Seminars	20	11
	4. Midterms	40	22
5. Final exam	40	22	
	Total	100	55

¹ The grading structure for each subject is determined by the Council of the organizational unit before the beginning of the academic year in which the subject is taught as per Article 64, paragraph 6 of the Law on Higher Education of Sarajevo Canton

	Scores and grading		
	Score	Grade (B&H)	Grade (ECTS)
	< 55	5	F, FX
	55-64	6	E
	65-74	7	D
	75-84	8	C
	85-94	9	B
	95-100	10	A
Literature²:	<p>Mandatory literature:</p> <ol style="list-style-type: none"> 1. Baynes, J.W., Dominiczak M.H. (2005) <i>Medical Biochemistry</i>, 2nd ed., Elsevier Mosby. 2. Ludvik, B., Bischof, M., Kraupp, M., Luger, A. (2012) <i>Endokrinologie und Stoffwechse</i>, 6. Auflage, <p>Supplementary literature:</p> <ol style="list-style-type: none"> 1. Berg, J.M., Tymoczka, J.L., Stryer, L.W.H. (2005) <i>Biochemistry</i>, 5th ed., Freeman and Company/New York. 		

² The Senate of the higher education institution, as an institution, or the Council of the organizational unit of the higher education institution, as a public institution, determines by a special decision, which is published on its website before the beginning of the academic year obligatory, mandatory and recommended textbooks and manuals, as well as other recommended literature based on which exams are prepared and taken as per Article 56, paragraph 3 of the Law on Higher Education of the Sarajevo Canton