



Course ID: HOB409	Course name: BIOCHEMISTRY OF NUTRITION		
Cycle: FIRST	Year: FOURTH	Semester: VIII	ECTS credits: 3
Course status: MANDATORY	Total course hours: 45 Lectures: 30 Laboratory: 15		
Teaching participants:	Teachers and associates with expertise in the field of biochemistry of nutrition		
Prerequisite for enrollment:	-		
Course aims:	Introducing students to metabolic and energy conversions of nutrients and protective substances in the human body. Acquiring knowledge about food biochemistry, metabolism of food components, regulation of food intake and energy homeostasis.		
Thematic course units:	Introduction to dietary biochemistry and diet therapy. Basic classes of nutrients; Parenteral nutrition; Energy homeostasis; Regulation of food intake; Nutrition and disease.		
Learning outcomes:	<i>Knowledge:</i> The student will learn the basic metabolic pathways of nutrients, ways of proper, as well as of consequences of improper nutrition. Also, the students will master the main mechanisms of food intake regulation in the human body, and the importance of regulation to maintaining of homeostatic conditions in the body. <i>Skills:</i> The student will be able to independently judge the importance of proper nutrition for maintaining of health and improving of the life quality for the people at risk when it comes from metabolic disorders. <i>Competencies:</i> The student will have competencies to distinguishes proper from improper diet in given circumstances, applies diet therapy in specific conditions; understands biochemical relationship between diet and energy homeostasis; understands the basic mechanisms of regulation of nutrients intake in human body.		
Teaching methodology:	Classroom lectures and laboratory exercises.		
Assessment methods	Grading criteria		

and grading system¹:	Criteria	Maximal score	Required score
	1. Class attendance	5	3
	2. Class activities	10	5
	3. Midterms	45	25
	4. Final exam	40	22
	Total	100	55
	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:	Mandatory literature:		
	1. Lieberman, M., Marks, A.D. (2009) MARKS' BASIC MEDICAL BIOCHEMISTRY - A CLINICAL APPROACH, 3 rd ed., Wolters Kluwer Health/Lippincott Williams & Wilkins; Philadelphia-Baltimore...Sydney-Tokyo		
	2. Baynes, J.W., Dominiczak, M.H. (2005) Medical Biochemistry, 2 nd ed., Elsevier Mosby, Philadelphia,...New York,...Toronto		
	Supplementary literature:		
1. Guthrie, H.A. (1989) Introductory Nutrition, 7 th ed., Times Mirror/Mosby College Publishing; St. Louis-Toronto-Boston-Los Altos			
2. Devlin, T.M. (1997) Textbook of Biochemistry with Clinical Correlations. 4 th ed., Wiley-Liss, New York, ...Brisbane,...Toronto.			

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

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