

Course ID: HOB475	Course name: CHEMISTRY OF NATURAL PRODUCTS					
Cycle: FIRST	Year	: FOURTH	Semester: VII	ECTS credits:5		
Course status: MANDAT(DRY	Total course hours: Lectures: 30 Laboratory: 45	75		
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs				
Prerequisite for enrollment:		ΝΟ				
Course aims:		The aim of the isolation, put structure de natural prodin organism secondary m	this course is to acquiurification, identificatietermination of the mucts. Introduction of fusthat produce themetabolites.	ire the basic principles of ion, characterization and nost important classes of unction of this compounds n with an emphasis on		
Thematic course units:		 Introduction, classification and origin of compounds as products of primary and secondary metabolism Classes of natural products (terpenoids, alkaloids, flavonoids, coumarins, polyketides, fatty acids, steroids, fenilpropanoids) Methods of isolation of natural products Identification of natural products The biosynthesis of secondary metabolites Biological and environmental function 				
Learning outcomes: Knowledge: The student products. Skills: The student purification, important cla Competences The student theories and identification			distinguishes, classifies and identifies natural can apply the basic principles of isolation, identification, and characterization of the most ass of natural products. s: knows how to independently apply the learned methods to solve the problem of isolation and of natural compounds from natural materials.			
Teaching methodo	logy:	Classroom le	ctures and laboratory	exercises		

Form SP2

UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

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	Grading criteria					
		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		
Assessment methods	Scores and grading					
and grading system ¹ :	Score		Grade	Grade		
			(B&H)	(ECTS)		
		< 55	5	F, FX		
		55-64	6	E		
		65-74	7	D		
		75-84	8	С		
		85-94	9	B		
		95-100	10	А		
	Mandatory literature:					
	1. Petrović, S., Mijin, D., Stojanović, N. (2005) Hemija					
	prirodnih organskih jedinjenja. Tehnološko-metalurški					
	fakultet. Beograd.					
		141141000, 2008, 441				
	Suppl	ementary literature				
Literature ² :	Juppenientary interature.					
	1. James, R., Hanson, (2003) Natural Products: The Secondary					
	Metabolites, The Royal Society of Chemistry.					
	2. Buchanan B., Gruissem W., Jones R. (2000) Biochemistry					
	and Molecular Biology of Plants American Society of Plant					
	Physiologists, 2000.					
	3. Vermeris W., Nicholson R., (2006) Phenolic Compound					
	Biochemistry, Springer.					

 $^{^{1}}$ 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