

Course ID: HFHII1	Cour	ourse name: COLLOID CHEMISTRY				
Cycle: SECOND	Year: FIRST		Semester: I	ECTS credits: 6		
Course status: ELECTIVE		Γ	Total course hours: Lectures: 60 Laboratory: 30			
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs				
Prerequisite for enrollment:		-				
Course aims:		Acquiring knowledge about the physico-chemical structure and properties of colloids, and methods of obtaining colloids.				
Thematic course units:		 Introduction to colloid chemistry. Basic definitions of colloids. Micellar colloids. Preparation and purification of colloids. The size and shape of colloidal particles. Physico-chemical structure of colloids. Surface phenomena: surface tension, adsorption. The viscosity of colloidal solutions. Kinetic phenomena in colloids: Brownian motion, diffusion, sedimentation and osmotic pressure. Optical phenomena in colloids: refraction, scattering and absorption of light. Electrokinetic effects. Rheological properties of colloidal systems. Coagulation of colloids. 				
Learning outcomes	::	Knowledge: Acquired basic methods of obt Skills: The student w colloids and co between colloid computational of chemistry. Competences Application of chemistry and	Acquired basic knowledge of physico-chemical structure, properties and nethods of obtaining colloids. Skills: The student will be able to analyze the physico-chemical structure of colloids and connect it with their properties, determine the differences between colloidal systems and real solutions, interpret experimental and computational data, give examples of colloidal systems in different fields of chemistry. Competences: Application of acquired knowledge and skills in various fields of the states of the stat			
Teaching methodology:Lectures (oral Laboratory ex			presentation and interactive rcises	e classes)		

Form SP2

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	Grading criteria				
	Criteria	Maximal score	Required score		
	1. Class attendance	5	3		
	2. Class activities	15	8		
	3. Midterms	40	22		
	4. Final exam	40	22		
	Total	100	55		
Assessment methods	Scores and grading				
and grading system ¹ :	Score	Grade	Grade		
8 8 9		(BiH)	(ECTS)		
	< 55	5	F, FX		
	55-64	6	Е		
	65-74	7	D		
	75-84	8	С		
	85-94	9	В		
	95-100	10	А		
	Mandatory literature:				
	/				
	Supplementary literature:				
Literature ² :	1. Liubomir Đaković. <i>Koloidna hemija</i> . Zavod za udžbenike i nastavna sredstva.				
	Beograd, 2006.				
	2. Lubomir Đaković, Petar Dokić, <i>Praktikum koloidne hemije</i> , Zavod za				
	udžbenike i nastavna sredstva, Beograd, Tehnološki fakultet, Novi Sad, 2003.				
	3. Dragica Ovcin i dr., Fizička hemija - zbirka zadataka, Tehnološko-metalurški				
	fakultet, Univerzitet u Beogradu, Beograd, 2004.				

¹The 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

²The 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