			-	RSITY OF EAST culty of Technolog							
S S		Study	y programm	ne: Chemical Engi	neering and Tech	nology					
			Cycle I		Year III						
			d Chemistry								
			ment for Physical Chemistry, Electrochemical engineering and materials– Faculty c plogy Zvornik								
Course code			Course status		Semester		ECTS				
			Compulsory		V		6				
*			ković, full professor								
Teaching assistant	Da	nijela Rajić, s	ić, senior assistant								
Number of classes/ teachin week)			workload (per Individual		tudent workload (in hours per semester)		Student workload coefficient S₀				
Lectures	exercises		boratory kercises	Lectures	Auditory exercises	Laborator exercises	3 0				
3	2*15+0*	 5+2*15=75 h	2	45	()*15*1 1	30 0*15*1 4+2*1	1.40 5*1.4)=105 hours				
	3 15+0"			orkload 75 + 105			5 1.4)-105 HOUIS				
Learning outcomes		 chemistry, 2. govern the basic laws in colloidal systems, 3. demonstrate skills in characterizing and setting properties in different colloidal systems, 4. practically apply acquired knowledge in food and other production systems, 5. logically connect theoretical, experimental and computational knowledge, effective learning, teamwork, use of literature. 									
Prerequisites											
Teaching meth	lods Le	Lectures, auditory and laboratory exercises, mid-term tests (colloquia).									
 Syllabus outline per week outline Syllabus outline per week Surface phenomena in colloids: Brownian movement, diffusion, sedimentation and osmotic pressure. Optical phenomena in colloids. Size and shape of colloids. Surface phenomena in colloids: Brownian movement, diffusion, sedimentation and osmotic pressure. Optical phenomena in colloids. Electro-kinetic phenomena in colloids. Stability and coagulation of colloids. Stability and coagulation of colloids. Specific colloid systems: emulsions, foams and gels. 											
			Obligatory reading								
Αι	uthor		Title, publisher			Yea	r Pages				
Lj. Đaković			olloidal Che aching aids,	emistry, Institute Belgrade	for textbooks	and 2006	5 1-380				

Lj. Đaković, P. Dokić		Practicum of colloidal chemistry, Institute for textbooks and teaching aids, Belgrade; Faculty of Technology, Novi Sad	2003	1-53							
Additional reading											
Author		Title, publisher	Year		Pages						
Myers, D.		Surfaces, Interfaces and Colloids, Wiley,	1999								
		Type of student evaluation		Grade points	Percentage						
	Pre-exam of	ligations									
Obligations,		Atter	dance	6	6%						
assessment		Mid-term test (colloquium) –	30	30 %							
methods and		Laboratory exe	20	20%							
grading system		S	14	14%							
	Final examination										
		Final examination	n (oral)	30	30 %						
	Total			100	100 %						
Webpage	www.tfzv.ue	s.rs.ba									
Date	2023										