

Course ID: HNM303	Cour	Course name: MULTIMEDIA IN EXPERIMENTAL CHEMISTRY			
Cycle: FIRST	Year: THIRD		Semester: V	ECTS credits: 2	
Course status: ELECTIVE		1	Total course hours: Lectures: 15 Laboratory: 15	30	
Teaching participa	nts:	Teachers and associates with expertise in the field to which the subject belongs			
Prerequisite for enrollment:		-			
Course aims:		Enabling stures realization of	dents for use of multin f the experimental par	nedia resources in t of chemistry instruction	
Thematic course u	nits:	 Mater Multin Teach teachi The reachi The reachi The reachi Anima Mayer Anima Mayer Multin You T Advarteachi Educator of mu Applicator Multin 	rial basis of teaching. R media in teaching proc ning strategies that in ing role of multimedia i istry ations and simulations r's theory of multimed media in teaching - thr ube in chemistry teach ntages and disadvantag ing ational softwares and ltimedia material. cation of laboratory set ing media in displaying che	esources for teaching. tess itegrate ICT in chemistry n teaching and learning in chemistry teaching ia learning ee levels of representation ning ges of using the Internet in DVD materials. Evaluation nsors and ICT in chemistry emistry experiments	
Learning outcomes	::	Knowledge: • Select chemi Skills: • Asses multin Competences • Apply anima • Apply analy	and apply adequate m istry teaching process s the advantages and d media tools in chemist s: appropriate criteria fo ations and simulations aboratory sensors in ze the data using appro	nultimedia resources in lisadvantages of using ry teaching or evaluating available for chemistry teaching; experimental work and opriate devices and	

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	applications.Produce multimedia experiment(s)	material based on	chemistry		
Teaching methodology:	Oral presentation Discussion Research Practical exercises				
	Grading criteria				
	Criteria	Maximal score	Required score		
	1. Class attendance	5	3		
	2. Class activities	15	8		
	3. Midterm	25	14		
	4. Seminar	15	8		
	5. Final exam	40	22		
Accessment methods	Total	100	55		
Assessment methous	Score	es and grading			
and grading system ¹ :		Grade	Grade		
	Score	(B&H)	(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		
Literature ² :	 Mandatory literature: 1. Perina I. (2004). <i>Kemijski pokusi u optičkoj projekciji,</i> Zagreb: Školska knjiga. Supplementary literature: 1. Mishra S., Sharma R.C.(2005) <i>Interactive Multimedia in</i> <i>Education and Training</i>, Hershey (USA): IDEA Group Publishing 2. <i>Multimedija u nastavi kemije</i> - DVD Kemija 1 i Kemija 2, Interactive and Starter Publicher 				
	PROFIL Multimedija 3. Multimedia Demonstrations by Dr. Karl Harrison,				

 $^{^{1}}$ 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

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