



Form SP2

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UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

Course ID:	Cours	Course name: CHEMISTRY EXPERIMENTS FOR MIDDLE AND				
HNM351		H SCHOOL STUDENTS				
Cycle: FIRST	Year:	THIRD	Semester: V	ECTS credits: 4		
Course status: MANDATO		PRY	Total course hours: Lectures: 15 Laboratory: 30	45		
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs				
Prerequisite for enrollment:		-				
Course aims:		Teaching students to acquire experimental approach in learning chemistry. Enabling students for adequate selection of chemical experiments appropriate to chemistry instruction in middle and high school				
Thematic course units: 2. Type 3. Orig 4. Orga 5. The scho 6. Perf teac 7. Eval thro 8. Ever			eriment in chemistry education and its tasks es of school experiments ginality in the selection of experiments anization of teaching process in chemistry role of the teacher's attitude in conducting pol experiments forming experiments and their applicability in thing luation of students' knowledge and skills ough school experiments ryday life chemistry through experiments ivational experiments			
Learning outcomes	::	 Knowledge: Explain real-life situations using knowledge of chemistry Use appropriate chemical terms and symbols to explain chemical processes Skills: Analyze the selected experiment, adjust it to school conditions if necessary and perform it with a smaller amount of chemicals; Provide precautionary measures during the performance of the selected experiment; Demonstrate the importance of the teacher's attitude 				

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	 when conducting the experiment. Competences: Search various sources of information to find adequate examples of experiments Anticipate risks during experimental work in chemistry teaching; Argue the importance of chemistry in everyday life; 				
	Oral presentation				
	-				
Teaching methodology:	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		
Assessment methods	Total 100 55				
and grading system ¹ :	5001	res and grading Grade	Grade		
	Score	(B&H)	(ECTS)		
	< 55	5	F, FX		
	55-64	6	E		
	65-74	7	D		
	75-84	8	С		
	85-94	9	В		
	95–100	10	A		
Literature ² :	 Supplementary literature: Dragić, R. (1974). Metodika nastave hemije, Sarajevo: Svjetlost. Mayer, V. (1991). Eksperimentalna nastava kemije, Zagreb: Školska knjiga. Sikirica, M. (2011). Zbirka kemijskih pokusa. Zagreb: Školska knjiga. 				

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