NAME OF THE COU	Chemistry Education I											
Code	PMC210			Year of st	udy	1st year; graduate study						
Course teacher	Dr.sc. Roko Vladušić			Credits (E	edits (ECTS)		4,0					
				Type of in	struction	Р	S	V	Т			
Associate teachers				(number of	of hours)	30	30					
	Obligate			Percenta	, e of	10	00					
Status of the course	Obligat	6		applicatio	application of e-learning							
	1		COUR	SE DESCRI	ΡΤΙΟΝ							
Course objectives	The aim of course is to provide opportunities for construction of theoretical and practical knowledge about teaching and learning chemistry. Also, students will be taught how to investigate and recognize the lawfulness of chemistry instruction.											
requirements and entry competences required for the course	related to the adequate knowledge of chemistry.											
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 Students: based on historical features of the development of chemistry and chemistry education, will be able to see the importance and necessity of the experimental approach to the chemistry teaching, will be able to explain the position of Chemistry Education in the area of Science and Education, as well as the object of its research, will be able to analyse the purposefulness and effectiveness of different approaches to teaching and learning chemistry in dependence of the content specifics, will be able to safely and properly apply the theoretical knowledge in experiment's preparation and implementation in the chemistry instruction, will be able to analyse students' knowledge regarding to the levels and types of knowledge and will be able to explain and organise instruction related to the fundamental chemical 											
Course content broken down in detail by weekly class schedule (syllabus)	 History of Chemistry and Chemistry Education (3 Lectures + 1 Seminar) Presentation of selected content issues in Chemistry Education (1 L + 3 S) The place of Chemistry education in science (4 L) Explanations of fundamental chemical laws (4 S) Sources of knowledge in chemistry instruction (6 L + 4 S) Safety and protection in experimental work (2 L) Strategies, methods and procedures in Chemistry instruction (4 L + 4 S) Learning outcomes in Chemistry Instruction ((2 L + 4 S) Pedagogical content knowledge (2 L + 6 S) The role of taxonomy of knowledge in Chemical Education in evaluation processes (2 L + 4 S) 											
Format of instruction	 ☑ lectu ☑ semi □ exerci □ on lin ☑ partia □ field 	res nars and cises ne in ent al e-lear work	d worksho irety ning	ops	 ☑ independent assignments ☑ multimedia □ laboratory □ work with mentor □ (other) 							
responsibilities	workeh	iu iapora	aloi y exel	uses, 10 des t implemente	ign and perforn	n experiñ m	ients, to	uevelop	J			
Screening student												
work (name the	attenda	nce	2	Research		Practical	training					
proportion of ECTS credits for each	Experin work	nental		Report		(O	ther)					
activity so that the total number of	Essay			Seminar	0,5	(O	ther)					

ECTS credits is equal to the ECTS value of the course)			essay										
	Tests		Oral exam	1,5	(Other)								
	Written exam Project				(Other)								
Grading and evaluating student work in class and at the final exam	Individual assignments 20 %, Pre-exam, 20 %, Oral exam 60 %												
Required literature (available in the library and via other media)		7	Number of copies in the library	Availability via other media									
	Sikirica, M. (200 Školska kniiga.	04). Meto Zagreb.	1										
	Mrklić, Ž. (1998 script), Split.). Metodi		+									
Optional literature (at the time of submission of study programme proposal)	Chemistry textbooks approved by Ministry of Science, education and sport. Holyman, S. (2006). Teacher's book- GCSE Chemistry, Nelson Thornes Ltd, Cheltenham. Pienta, N. J., Cooper, M., M. and Thomas J. Greenbowe (2005). Chemists' guide to effective teaching, Pearson education, New Jersey. Bucat, B. and Fenshman, P. (1995). Selected papers in chemical education research, IUPAC.												
Quality assurance methods that ensure the acquisition of exit competences	Personal consultations, Individual tasks analysis, Internal evaluation of learning outcomes achievement; Institutional evaluation at the end of the semester.												
Other (as the proposer wishes to add)													