NAME OF THE COL	JRSE	Organic chemist	ry I							
Code	PMC00	5	Year of stud	у	2.					
Course teacher	dr. sc. S	Stjepan Orhanović, nt professor	Credits (EC	•	6,0					
Associate teachers			Type of instruction (number of hours)		L	S	E	F		
					45	15				
Status of the course	mandat	tory	Percentage application	of of e-learning	10 %					
		COURS	E DESCRIPT		•					
Course objectives	Course objective is acquiring knowledge about basic groups of organic compoun									
-		ructure, nomenclatu ent requirement is c								
Course enrolment requirements and entry competences required for the course		d upon taking cours			nemisuy		ompeter	ices		
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 Upon completing exam student will be able to: describe organic compounds in relation to their functional groups give proper name to organic compounds following IUPAC recommendations describe physical and chemical properties of organic compounds in every group present and describe reaction mechanism of reactions characteristic for specific class of compounds distinguish organic compounds isomers 									
Course content broken down in detail by weekly class schedule (syllabus)	 5. distinguish organic compounds isomers Lectures: Introduction to organic chemistry 83 hours) Hybridisation: sp³, sp², sp, resonant structures (3 hours) Alkanes: structural formulas, nomenclature, isomery, physical properties (3 hours) Alkanes: conformers, chemical properties – halogenation, oxidation (3 hours) Stereoisomers: enantiomers, diastereomeres, determination of relative configuration, determination of absolute configuration (3 hours) Alkyl halides: nucleophilic substitution S_N2, elimination E2 (3 hours) Alkyl halides: nucleophilic substitution S_N1, elimination E1 (3 hours) Alkyl halides: nucleophilic substitution S_N1, elimination E1 (3 hours) Alkenes, alkynes: structural formulas, nomenclature, isomery, physical properties, chemical properties (3 hours) Electrophilic addition (3 hours) Alcohols, ethers: structural formulas, nomenclature, physical properties, chemical properties (3 hours) Aldehydes and ketones: structural formulas, nomenclature, physical properties, chemical properties – nucleophilic addition (3 hours) Aldehydes and ketones: structural formulas, nomenclature, physical properties, chemical properties – nucleophilic addition (3 hours) Synthesis of acetals, hemiacetals, ketals, hemiketals, imines, Schiff bases, diols (3 hours) Carboxylic acids: structural formulas, nomenclature, physical properties, chemical properties – acidity, esterification (3 hours) Carboxylic acids: structural formulas, nomenclature, physical properties, chemical properties – acidity, esterification (3 hours)									
Format of instruction	☑ lectures □ independent assignments ☑ seminars and workshops □ multimedia □ exercises □ laboratory □ on line in entirety □ work with mentor □ field work □ (other)									
Student	Attending classes and seminars, at least 70 % of terms									
responsibilities										

work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)	attendance											
	Experimental work		Report		(Other)							
	Essay		Seminar essay		(Other)							
	Tests	1,5	Oral exam	2,5	(Other)							
	Written exam		Project		(Other)							
Grading and evaluating student work in class and at the final exam	Before every lecture quiz is being held on the previous lecture subject, student that accomplishes more than 50 % of the total points gains one grade higher on the respectable partial written exam. Passing grade requires at least 50 % points on partial exams. Passing grade on the written exam is condition for attending oral exam.											
Required literature (available in the library and via other media)		-	Number of copies in the library	Availability via other media								
	S.H. Pine, J.B. H Hammond; Org 1994.		10									
Optional literature (at the time of submission of study programme proposal)	Andrew Streitwieser, Clayton H. Heathcock, Edward M. Kosower: Introduction to Organic Chemistry, Prentice Hall, Inc. 1992. D. Klein: Organic Chemistry, John Wiley and Sons, Inc. 2012. Maja Pavela-Vrančić, Organska kemija, powerpoint prezentacija											
Quality assurance methods that ensure the acquisition of exit competences	Personal consultations, completing partial exams, students survey for the evaluation of the subject and teacher, evidence of the presence on the classes, analysis of the success rate on the quizzes, partial and final tests.											
Other (as the proposer wishes to add)												