Level: bachelor							
Course title: Organic Chemistry IV IHO-301							
Status: elective							
ECTS: 5							
Requirements: none							
Learning objectives							
Obtaining knowledge of Molecular Orbital (MO) theory and the principle of hard at and bases (HSAB) as the most accessible approaches to understanding many reactivity. Gaining knowledge and skills in planning of organic reactions and their in modern organic synthesis.	aspects of						
Learning outcomes Qualifying students to create and interpret organic reactions for the synthesis of the planned compounds.							
Syllabus							
Theoretical instruction							
Molecular Orbital (MO) theory and structures of organic molecules. The Principle of Hard and Soft Acids and Bases (HSAB). Factors affecting the position of an equilibrium and chemical reactivity. Ionic Reactions—Reactivity. Pericyclic Reactions (signatropic rearrangement, Diels—							
						Alder reactions, [3+2]- and [2+2] cycloaddition reactions. The Woodward-Hoffi Photochemical Reactions.	mann Kules.
						Practical instruction	
Laboratory synthesis of organic compounds.							
Weekly teaching load	Other:						

weekiy teaching load				Other:	Ĺ
Lectures: 2	Exercises: 2	Other forms of	Student research:		
		teaching:			