

Course Unit Descriptor

Study Programme: Chemistry			
Course Unit Title: Steroid Chemistry			
Course Unit Code: IHO-403			
Name of Lecturer(s): Assistant professor Aleksandar Oklješa			
Type and Level of Studies: Bachelor Academic Studies			
Course Status (compulsory/elective): Elective			
Semester (winter/summer): Summer			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): Face-to-face			
Number of ECTS Allocated: 6			
Prerequisites: None			
Learning objectives The goal of the course is to obtain knowledge of steroids' structures, their modifications and reactivity. Gaining knowledge and skills in planning of synthetic routes to modified steroid analogues.			
Learning outcomes After successfully completing the course, the student is able to devise synthetic routes from naturally occurring steroids to desired steroidal derivatives.			
Syllabus <i>Theoretical instruction</i> Sources of steroids. Reaction and conformational analysis. Reactions of alcohols and halides. Steroid olefins. Steroid ketones. Steroid amines. Rearrangements of steroid derivatives. Synthesis of biologically active steroidal derivatives. <i>Practical instruction</i> Laboratory synthesis of steroidal derivatives.			
Required Reading: 1. Weekly teaching load			
Weekly Contact Hours: 75	Lectures: 30	Practical work: 45	
Teaching Methods: Lectures and laboratory work			
Knowledge Assessment (maximum of 100 points): 100			
Pre-exam obligations	points	Final exam	points
Activity	10	Written exam	40
Lab exercises	20	Oral exam	30