

<b>Study Programme:</b> Chemistry			
<b>Course Unit Title:</b> Experimental Organic Chemistry			
<b>Course Unit Code:</b> IHO-201			
<b>Name of Lecturer(s):</b> Assistant professor Jovana Ajduković			
<b>Type and Level of Studies:</b> Bachelor Academic Studies			
<b>Course Status (compulsory/elective):</b> Elective			
<b>Semester (winter/summer):</b> Winter			
<b>Language of instruction:</b> English			
<b>Mode of course unit delivery (face-to-face/distance learning):</b> Face-to-face			
<b>Number of ECTS Allocated:</b> 5			
<b>Prerequisites:</b> None			
<b>Learning objectives</b> Introduction to basic experimental techniques used in laboratories for organic chemistry. Further development manual skills necessary for safe operation in the organic laboratory.			
<b>Learning outcomes</b> Knowledge of laboratory techniques in organic chemistry. Mastering the work in the laboratory of organic chemistry. Apply standard laboratory techniques in the synthesis of organic compounds. Safe handling of the laboratory equipment, supplies and apparatus used in laboratories for organic chemistry.			
<b>Syllabus</b>			
<i>Theoretical instruction</i> Theoretical treatment of the experimental techniques used in laboratories for organic chemistry. Purification techniques of solid, liquid and gaseous organic compounds. Extraction - liquidliquid, solid-liquid, solid-solid (SPE - solid phase extraction). Chromatography - Column and thin. Drying techniques of organic substances - dry solid, liquid and gaseous substances. Performing reactions at extremely low temperatures.			
<i>Practical instruction</i> Distillation - a simple, fractional, distillation with steam, distillation under reduced pressure. Crystallization. Vacuum drainage. Vacuum evaporation. Monitoring of the reaction by thin-layer chromatography. The separation of mixtures of substances overhead chromatography. Drying of solid organic substances. Dry and liquid solutions of organic compounds. Drying gases. Carrying out the reaction at temperatures below -50° C.			
<b>Required Reading:</b> 1. Weekly teaching load			
<b>Weekly Contact Hours:</b> 60	<b>Lectures:</b> 15	<b>Practical work:</b> 45	
<b>Teaching Methods:</b> Lectures and practical problem solution			
<b>Knowledge Assessment (maximum of 100 points):</b> 100			
<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Activity	5	Seminar	15
Experimental work	50	Oral exam	30