

<b>Course title</b> Pracownia magisterska/M.Sc. Laboratory course		<b>ECTS code</b> 13.3.1022	
<b>Name of unit administrating study</b> Faculty of Chemistry			
<b>Studies</b>			
<b>Field of study</b>	<b>Type</b>	<b>Form</b>	
Chemical Business	Master	Full-time studies	
Dr hab. Jolanta Kumirska, prof. UG			
<b>Forms of classes, the realization and number of hours</b>		<b>ECTS credits</b>	
<b>A. Forms of classes, in accordance with the UG Rector's regulations</b> Laboratory classes		classes – 180 h Tutorial classes - 100 h Student's own work - 120 h TOTAL: 500 h – 20 ECTS	
<b>B. The realization of activities</b> In-class learning			
<b>Number of hours</b> Laboratory classes 90 h			
<b>The academic cycle</b> 2021/2022 winter semester and summer semester			
<b>Type of course</b> obligatory		<b>Language of instruction</b> Polish	
Teaching methods • Laboratory experiments		Form and method of assessment and basic criteria for evaluation or examination requirements	
		A. Final evaluation, in accordance with the UG study regulations Course completion (with a grade)	
		B. Assessment methods Realization of master project and presentation of the obtained results	
		C. <b>The basic criteria for evaluation</b> or exam requirements  • an assessment of the quality of performed master's researches, including substantive preparation, independence in their realization, correctness of conducted researches (if performed), correctness of interpretation of the obtained results	
<b>Required courses and introductory requirements</b>  Organic chemistry, Biochemistry, Physical chemistry, Spectrochemistry, Instrumental analysis, Intellectual property protection, Advanced chemistry laboratory Knowledge of organic and physical chemistry and biochemistry at the first-cycle education, knowledge of the basic principles of occupational health and safety in a chemical laboratory, knowledge of the construction and operating principle of basic chemical apparatus used in the laboratory of organic synthesis and physicochemistry, knowledge of basic concepts and principles of property protection industrial and copyright law, the ability to synthesize simple organic compounds based on procedures written in Polish and English languages			
<b>Aims of education</b> • Planning and performance of experimental research project by each student working under the control /guidance of supervisor. • Presentation of obtained research results in the form of written master thesis			

**Course contents**

The program content is varied and depends on the scope of the topic of the master thesis

**Bibliography of literature****A. Literature required to pass the course****A.1. Literature used during classes:**

Specialist literature in the scope of realized master thesis. The scope of literature is corrected and still adopted to conducted master research topics

**A.2. Literature for individual studies:**

Specialist literature in the scope of realized master thesis. The scope of literature is corrected and still adopted to conducted master research topics

**B. Extracurricular readings**

Specialist literature in the scope of realized master thesis. The scope of literature is corrected and still adopted to conducted master research topics