

Course title Pracownia magisterska/M.Sc. Laboratory course		ECTS code 13.3.1022	
Name of unit administrating study Faculty of Chemistry			
Studies			
Field of study	Type	Form	
Chemical Business	Master	Full-time studies	
Dr hab. Jolanta Kumirska, prof. UG			
Forms of classes, the realization and number of hours		ECTS credits	
A. Forms of classes, in accordance with the UG Rector's regulations Laboratory classes		classes – 180 h Tutorial classes - 100 h Student's own work - 120 h TOTAL: 500 h – 20 ECTS	
B. The realization of activities In-class learning			
Number of hours Laboratory classes 90 h			
The academic cycle 2020/2021 winter semester and summer semester			
Type of course obligatory		Language of instruction 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. The basic criteria for evaluation 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	
Required courses and introductory requirements 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			
Aims of education • 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