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Course title Pracownia specializacyina/Graduate laboratory course			13 3 1186						
Nome of unit administrating study									
Faculty of Chemistry									
Studies									
Field of study	Туре		Form						
Chemistry	Master		Full_time_studies						
Dr hab. Jolanta Kumirska, prof. UG		rull-unic studies							
D T H ao, v o H ain, r									
Forms of classes, the realization and number of hours			ECTS credits						
		classes 180 h Tutorial classes 60 h							
A. Forms of classes, in accordance with the UG Rector's regulations			Student's own work 60 h						
Laboratory classes			TOTAL: 300 h - 12 ECTS						
B. The realization of activities									
In-class learning									
Number of hours									
Laboratory classes 180 h									
The academic cycle									
First year, summer semester									
Type of course		Language of instruction							
obligatory		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 assignment/final work - performance of specific practical work							
					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							
					Dequired courses and introduc	otory requirements]		
					First cycle studies in chemistry.	environmental protection	n, chemical eng	ineering and related fiel	lds
					Knowledge of basic issues in the	e field of chemistry and /	or related scien	tific fields	
		Aims of education							
• Substantive and / or practical preparation for realization of experimental part in the field of 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:

Books and scientific articles related to the topic of the master thesis A.2. Literature for individual studies: Books and scientific articles related to the topic of the master thesis

B. Extracurricular readings

Books and scientific articles related to the topic of the master thesis

Knowledge

Student:

- recognizes and characterizes methods, techniques and research tools used in chemistry;
- chooses the correct research methods to complete the master research thesis
- characterizes development directions and knows the latest discoveries in the field of research carried out as part of the master thesis
- knows and applies the principles of health and safety during realization of experimental work on a test or measuring stand in laboratory or in the field (outside)

Skills

- Student:
- has the ability to conduct experiments related to the master thesis; uses simple and advanced methods, techniques and tools to achieve goals intended in the mater thesis
- is fluent in finding information in specialized literature (Polish and English)
- demonstrates the ability to write a master's thesis in Polish and a short scientific report in a foreign language based on her/his own research
- discusses about issues related to the master thesis in understandable language; is able to define her/his interests and develop them within the chosen specialization and/or within the topic of the master thesis; carries out the process of selfeducation and planning future career

Social competence

Student:

- verifies the level of her/his knowledge and skills; understands the need for continuous vocational training and personal development
- demonstrates creativity in independent and team work; is characterized by perseverance in taking on personal and professional challenges
- can work in a group, taking in it various roles
- is responsible for the safety of own and other work; knows how to deal with emergencies, is careful working with chemicals, is careful working with measuring instruments; understands the need to comply with the principles of professional ethics