

<b>Course title</b> Zaawansowana chemia/Advanced chemistry		<b>ECTS code</b> 13.3.1018	
<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	
<b>Teaching staff</b> Prof. dr hab. Mariusz Makowski			
<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 - 60 h student's own work - 160 h TOTAL: 400 h - 16 ECTS	
<b>B. The realization of activities</b> In-class learning			
<b>Number of hours</b> Laboratory classes 180 h			
<b>The academic cycle</b> First year, summer semester			
<b>Type of course</b> obligatory		<b>Language of instruction</b> Polish	
<b>Teaching methods'</b>  Performing experiments Designing experiments combined with a discussion of obtained results		<b>Form and method of assessment and basic criteria for evaluation or examination requirements</b>	
		<b>A. Final evaluation, in accordance with the UG study regulations</b> Course completion (with a grade)	
		<b>B. Assessment methods</b> Reports on laboratory exercises performed; written test covering all issues presented	
		<b>C. The basic criteria for evaluation</b>  The condition for obtaining a positive grade is submission of all reports and obtaining a minimum of 51% of points possible to obtain from reports (40% points) and written test (60% points)  Negative grade can be revised based on supplementing missing reports and / or obtaining min. 51% points from the retake of the written test	
<b>Required courses and introductory requirements</b> <b>a. Formal requirements</b> none <b>b. Prerequisites</b> none			
<b>Aims of education</b>  Introducing students to the current research topics of each department Making familiar with the laboratory equipment of each department			

Developing skills in using specialized equipment and/or software

Presentation of the potential Master's Thesis subjects, possible to realize in a given unit

**Course contents**

The program content is diverse and adapted to the scope of research work carried out in a given department

**Bibliography of literature**

**A. Literature required to pass the course**

A.1. Literature used during classes :

Books and scientific articles related to the research topics of individual Departments

A.2. Literature for individual studies:

Books and scientific articles related to the research topics of individual Departments

**B. Extracurricular readings**

Books and scientific articles related to the research topics of individual Departments