


**KAPITAŁ LUDZKI**  
 NARODOWA STRATEGIA SPÓJNOŚCI

 Projekt współfinansowany przez  
 Unię Europejską w ramach  
 Europejskiego Funduszu  
 Społecznego

**UNIA EUROPEJSKA**  
 EUROPEJSKI  
 FUNDUSZ SPOŁECZNY


<b>Course title</b>		<b>ECTS code</b>	
B.Sc. laboratory class		13.3.0460	
<b>Name of unit administrating study</b>			
null			
<b>Studies</b>			
<b>faculty</b>	<b>field of study</b>	<b>type</b>	pierwszego stopnia
Wydział Chemii	Chemia	<b>form</b>	stacjonarne
		<b>specjalty</b>	chemia biomedyczna, chemia kosmetyków, analityka i diagnostyka chemiczna, chemia żywności
		<b>specialization</b>	wszystkie
<b>Teaching staff</b>			
<p>dr hab. Jolanta Kumirska, profesor uczelni; dr Ewa Mulkiewicz; dr Grzegorz Olszewski; dr Ewa Wieczerzak; dr hab. Leszek Rolbiecki; dr hab. Alicja Boryło, profesor uczelni; prof. dr hab. Krzysztof Rolka; dr hab. inż. Ewelina Grabowska-Musiał; dr Joanna Drzeżdżon; prof. dr hab. Adam Prahł; dr Aleksandra Tesmar; dr hab. Łukasz Haliński; prof. dr hab. Adam Lesner; dr hab. Anna Białk-Bielińska, profesor uczelni; dr inż. Anna Gołąbiewska; dr hab. Jarosław Ruczyński; dr inż. Karolina Jagiełło; prof. UG, dr hab. Monika Paszkiewicz; dr Dorota Zarzeczkańska; dr hab. Aleksandra Dąbrowska, profesor uczelni; prof. UG, dr hab. Agnieszka Chylewska; dr hab. Zbigniew Kaczyński, profesor uczelni; prof. dr hab. Mariusz Makowski; dr hab. Agnieszka Żylicz-Stachula, profesor uczelni; dr hab. Marek Gołębiowski, profesor uczelni; dr Agnieszka Gajewicz-Skrętna; dr Natalia Gruba; dr inż. Anna Malankowska; dr hab. Beata Grobelna, profesor uczelni; dr hab. Magdalena Wysocka, profesor uczelni; dr hab. Anna Łęgowska, profesor uczelni; dr inż. Patrycja Jutrzenka Trzebiatowska; prof. dr hab. Piotr Skowron; dr hab. Andrzej Nowacki; dr hab. Dagmara Strumińska-Parulska, profesor uczelni; dr hab. Joanna Makowska, profesor uczelni; dr Samanta Romanowska</p>			
<b>Forms of classes, the realization and number of hours</b>		<b>ECTS credits</b>	
<b>Forms of classes</b>		4	
Laboratory classes		classes 60 h	
<b>The realization of activities</b>		tutorial classes 5 h	
classroom instruction		student's own work 35 h	
<b>Number of hours</b>		TOTAL: 100 h - 4 ECTS	
Laboratory classes: 60 hours			
<b>The academic cycle</b>			
2025/2026 summer semester			
<b>Type of course</b>		<b>Language of instruction</b>	
obligatory		Polish	
<b>Teaching methods</b>		<b>Form and method of assessment and basic criteria for evaluation or examination requirements</b>	
conducting experiments		<b>Final evaluation</b>	
		Graded credit	
		<b>Assessment methods</b>	
		assignment work – conducting research and presenting results	
		<b>The basic criteria for evaluation</b>	
		<ul style="list-style-type: none"> <li>•Condition for obtaining a positive grade is the completion of a diploma project (weight 50% of the grade), submitting a report on its implementation to the academic supervisor (weight 50% of the grade). The student receives a credit for the Diploma Workshop after receiving a positive evaluation of the report. Grading scale in accordance with the University of Gdańsk Study Regulations..</li> <li>•Negative grade may be corrected on the basis of preparation and performance of additional necessary work / submitting a corrected undergraduate project report to the academic supervisor and obtaining a positive grade from it. A grade scale in accordance with the University of Gdańsk Study Regulations.</li> </ul>	

<b>Method of verifying required learning outcomes</b>	
<b>Required courses and introductory requirements</b>	
<b>A. Formal requirements</b> none	
<b>B. Prerequisites</b> Knowledge of basic issues in the field of chemistry and / or related scientific fields	
<b>Aims of education</b>	
To gain competences of correct performing of research in the field of selected specialization and / or topic of the diploma Acquainting with the basic aspects of the construction and operating principle of the used research equipment To gain knowledge in the field of the basic computational methods in the field of selected specialization and / or topic of the diploma Acquiring the ability of critical interpretation of the obtained results. Developing the skills of correct preparation of the diploma project.	
<b>Course contents</b>	
The program contents are varied and adapted to the scope of the chosen specialization and/ or and / or topic of the diploma	
<b>Bibliography of literature</b>	
<b>A. Literature required to pass the course :</b> <b>A.1. Literature used during classes:</b>  Books and scientific articles are related to the selected speciality mode and / or to the topic of diploma project  <b>A.2. Literature for individual studies:</b> Books and scientific articles are related to the selected speciality mode and / or to the topic of diploma project  <b>B. Extracurricular readings</b> Books and scientific articles are related to the selected speciality mode and / or to the topic of diploma project	
<b>The learning outcomes (for the field of study and specialization)</b>	<b>Knowledge</b>
	<b>Skills</b>
	<b>Social competence</b>
<b>Contact</b>	
jolanta.kumirska@ug.edu.pl	