



**KAPITAŁ LUDZKI**  
NARODOWA STRATEGIA SPÓJNOŚCI

Projekt współfinansowany przez  
Unię Europejską w ramach  
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Społecznego

**UNIA EUROPEJSKA**  
EUROPEJSKI  
FUNDUSZ SPOŁECZNY



<b>Course title</b>		<b>ECTS code</b>	
Scientific Literature		13.3.1361	
<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	Biznes chemiczny	<b>form</b>	stacjonarne
		<b>specjalty</b>	wszystkie
		<b>specialization</b>	wszystkie
Wydział Chemii	Chemia	<b>type</b>	pierwszego stopnia
		<b>form</b>	stacjonarne
		<b>specjalty</b>	wszystkie
Wydział Chemii	Ochrona środowiska	<b>specialization</b>	wszystkie
		<b>type</b>	pierwszego stopnia
		<b>form</b>	stacjonarne
		<b>specjalty</b>	wszystkie
		<b>specialization</b>	wszystkie
<b>Teaching staff</b>			
dr Irena Audzeyenka			
<b>Forms of classes, the realization and number of hours</b>		<b>ECTS credits</b>	
<b>Forms of classes</b>		2 classes - 15 h tutorial classes – 10 h student's work – 25 h Total: 50 h - 2 ECTS	
Auditorium classes			
<b>The realization of activities</b>			
classroom instruction			
<b>Number of hours</b>			
Auditorium classes: 15 hours			
<b>The academic cycle</b>			
2025/2026 summer semester			
<b>Type of course</b>		<b>Language of instruction</b>	
an elective course		English	
<b>Teaching methods</b>		<b>Form and method of assessment and basic criteria for evaluation or examination requirements</b>	
<ul style="list-style-type: none"> <li>-critical incident (case) analysis</li> <li>-discussion - group work</li> <li>-problem solving</li> <li>-seminar lecture</li> <li>-text analysis and discussion</li> </ul>		<b>Final evaluation</b>	
		Graded credit	
		<b>Assessment methods</b>	
		Individual oral presentation	
		<b>The basic criteria for evaluation</b>	
		Positive grade from the presentation:	
		91-100%: 5.0	
		81-90%: 4.5	
		71-80%: 4.0	
		61-70%: 3.5	
		51-60%: 3.0	
		< 51%: 2.0	
		Assessment criteria in accordance with the University of Gdańsk Study Regulations	
<b>Method of verifying required learning outcomes</b>			
<b>Required courses and introductory requirements</b>			
<b>A. Formal requirements</b>			
lack			

<p><b>B. Prerequisites</b> lack</p>	
<p><b>Aims of education</b></p> <p>Familiarize students with scientific literature and reliable sources of information. Acquisition of knowledge how to search, analyze and use information from published studies in their own scientific work</p>	
<p><b>Course contents</b></p> <p>Familiarize students with scientific literature: discussing various types of research articles, introducing the reliable sources of scientific information, presenting some journals from Web of Science Master Journal List. Exploring the needs for knowledge transfer and ways to do it. Discussing and critical review of the chosen original research articles: understanding the structure of the article, identifying the hypothesis and research questions, insight into the applied methods, connecting the results and conclusions.</p>	
<p><b>Bibliography of literature</b></p> <p>Literature required to pass the course Davies, B., "Reading Research", Elsevier, 2021. Purugganan, M., Hewitt, J. "How to Read a Scientific Article," Cain Project in Engineering and Professional Communication, Rice University, 2004, <a href="http://www.owlnet.rice.edu/~cainproj/courses/HowToReadSciArticle.pdf">http://www.owlnet.rice.edu/~cainproj/courses/HowToReadSciArticle.pdf</a>. Extracurricular readings Elsevier. "Infographic: How to Read a Scientific Paper." Elsevier Connect, 2021, <a href="https://www.elsevier.com/connect/story/career-development/career-tips-and-advice/infographic-how-to-read-a-scientific-paper">https://www.elsevier.com/connect/story/career-development/career-tips-and-advice/infographic-how-to-read-a-scientific-paper</a>.</p>	
<p><b>The learning outcomes (for the field of study and specialization)</b></p> <p>Chemical Business: K_BCh_U03 plans, selects the appropriate research and measuring equipment and performs chemical experiments; analyses the results and draws conclusions based on them K_BCh_U09 using the acquired knowledge, skills and various sources of scientific information independently prepares written papers and oral presentations K_BCh_K01 identifies the level of her/his own knowledge and skills as well as the need to update engineering knowledge, continuous professional training and personal development public speeches Chemistry: K_U01 identifies, analyses and solves problems in the field of broadly understood chemistry on the basis of the acquired knowledge K_U08 presents in an understandable way the facts about chemistry using a scientific language typical of chemical sciences K_U09 is able to learn independently K_U10 prepares papers on various fields of chemistry in Polish and English, using acquired knowledge and skills as well as various sources of scientific information K_U11 prepares and presents oral presentations in various fields of chemistry in Polish and English, using acquired knowledge and skills as well as basic sources of scientific information K_U12 reads with understanding scientific and popular science chemical texts in English</p>	<p><b>Knowledge</b></p> <p>Students acquire knowledge about sources of scientific information. They are able to critically analyze published reports, find and use the appropriate methods for their own purpose. The students are aware of the importance of up-to-date knowledge to plan their research and for their personal development. They are able to present scientific facts for general public using a foreign language (English).</p>
	<p><b>Skills</b></p> <p>Students present and explain topics described in the research articles, can find the solution of their practical problems using scientific literature, assess the reliability of the published results.</p>
	<p><b>Social competence</b></p> <p>Students understand the necessity for learning, are aware of the importance and practical use of acquired knowledge.</p>

<p>K_K01 identifies the level of her/his own knowledge and skills and the need for continuous learning and personal development</p> <p>K_K06 raises her/his professional and personal competences by using information provided in various sources</p> <p>K_K07 appreciates the need for understandable presentation of selected chemical issues to the public</p> <p>K_K08 formulates opinions in the field of science with caution and criticism in their expression</p> <p>Environmental Protection:</p> <p>K_OŚI_W02 characterises at an advanced level the relationships and relationships between various disciplines of natural sciences and science, uses knowledge of mathematics, physics, chemistry and biology in the description of basic concepts, concepts and principles in environmental protection</p> <p>K_OŚI_U03 independently plans and develops her/his own lifelong learning</p> <p>K_OŚI_U05 prepares oral scientific presentations in Polish/a foreign language; can use a foreign language in accordance with the requirements specified for level B2 of the Common European Framework of Reference for Languages</p> <p>K_OŚI_U06 uses available sources of information and understands literature in the field of environmental protection, chemistry and natural sciences</p> <p>K_OŚI_U08 correctly concludes based on the available data from various sources</p> <p>K_OŚI_U09 prepares in Polish/English a short description of research, observation or problem task carried out during classes using appropriate scientific terminology</p> <p>K_OŚI_K05 identifies the level of her/his knowledge and skills, demonstrates the need to update knowledge about the environment and its protection, demonstrates the need for continuous professional training and personal development</p> <p>K_OŚI_K06 knows and appreciates the practical application of the acquired knowledge and skills in solving problems</p>	
<p><b>Contact</b></p> <p>irena.audzeyenka@ug.edu.pl</p>	