University of Gdańsk

Subject card

Subject name and code	Engineering seminar - chemistry, PG_00080696		
Field of study	Chemical Business		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2027/2028
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Optional subject group
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	4	Language of instruction	Polish
Semester of study	7	ECTS credits	3.0
Learning profile	academic	Assessment form	credit
Conducting unit	Faculty of Chemistry -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Joanna Makowska	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	0.0	30.0	30

E-learning hours included: 0.0

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	30	5.0	40.0	75

Subject objectives

Preparation of students for the diploma project and master thesis defense
Supporting and monitoring of diploma project conducting
Developing the ability to understand scientific texts in the field of chemistry at the basic level in Polish and English

Developing the skills of independent selection of scientific sources and searching for necessary information in them

Learning outcomes

Course outcome	Subject outcome	Method of verification
[BCHINŻ_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.	Keeps criticism in expressing opinions and keeps open to the opinion of others contributors Is active in enhancing of knowledge and understands the needs of long life learning	[SK2] presentation/project/paper/ report
[BCHINŻ_U04] In the course of carrying out engineering tasks, s/ he uses basic statistical methods, IT techniques and uses application software packages to describe chemical processes and experimental data.	Student creates files and directories; uses web browsers to find desired information and to communicate; constructs structures of chemical compounds and reactions; creates graphs of mathematical functions, multimedia presentations and image editing.	[SU2] presentation/project/paper/ report
[BCHINŻ_W08] Enumerates and describes concepts and principles in the field of protection of industrial property and copyright and the use of patent information resources.	Student knows the basic concepts and principles related to the protection of intellectual property. Knows the principles of copyright law, patent law, trademark law, industrial design law, and trade secret law.	[SW4] test/exam - oral or written
[BCHINŻ_W11] Enumerates legal and ethical aspects related to scientific, research and didactic work.	Student independently uses literature databases and critically selects source texts. The student is aware of the consequences of disregarding intellectual property and the abuse of artificial intelligence tools in research and teaching work.	[SW4] test/exam - oral or written
[BCHINŻ_K02] Works individually demonstrating initiative and independence in actions, and effectively cooperates in a team, performing various roles in it.	- Student prepares written works in various fields of chemistry in Polish and English, using acquired knowledge and skills as well as various sources of scientific information. - Student is aware of the need to critically analyze his or her own work - Student appreciates the need to be able to work in a team in accordance with his or her role in it (group leader/group member)	[SK2] presentation/project/paper/ report
[BCHINŻ_U10] Communicates in English in accordance with the requirements specified for level B2 of the Common European Framework of Reference for Languages; reads with understanding scientific and popular science chemical texts in English.	- Student independently uses literature databases and critically selects source texts on a given or independently selected topic. - The student reads, understands, analyzes and evaluates simple scientific texts in Polish and English - Student has the ability to prepare an oral presentation on a given topic in English and Polish - Student discusses in a substantive way the topic presented during his own or someone else's presentation	[SU5] implementation of a problem task
[BCHINŻ_U09] Using the acquired knowledge, skills and various sources of scientific information independently prepares written papers and oral presentations.	- Students verbally and in writing correctly argue their conclusions in the field of chemistry, interpret and analyze related information with basic chemical and economic laws. - By reading scientific texts, the student learns to analyze and synthesize information, extract key concepts and understand complex issues.	[SU2] presentation/project/paper/ report

	Course outcome	Subject outcome	Method of verification
	[BCHINŻ_W06] Enumerates basic unit processes and describes issues in the field of technology and chemical engineering.	- Student lists the most important literature database in the field of natural science - Student describes the principles of preparation and delivering of oral presentations at popular science level Describes the basic principles of preparation of scientific works in the field of natural science	[SW3] text preparation/written work

Subject contents	Rules for the proper preparation and editing of diploma thesis in the field of natural science Literature databases in life science and ways to use them Methods of searching for information in literature data Analysis of scientific texts on the examples of publications in a foreign language Rules for the preparation and presentation of public speeches
Prerequisites and co-requisites	Completed courses of obligatory subjetcs provided in program of Chemistry (University of Gdansk) in I to VI semesters Knowledge of the principles of organic chemistry, physical chemistry and biochemistry at the 1st level study, ability to use basic software packages (including text editors and multimedia presentation preparations), basic knowledge of English

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Preparation and presentation of several reporting multimedia presentations	75.0%	100.0%

Recommended reading		
	Basic literature	A. Literature required to finally pass the course (pass the exam): A.1. used during classes Books and scientific articles related to the selected specialty and/or the topic of the diploma project A.2. studied independently by the student Books and scientific articles related to the selected specialty and/or the topic of the diploma project
	Supplementary literature	Books and scientific articles related to the selected specialty and/or the topic of the diploma project.
	eResources addresses	

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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