

Subject card

Subject name and code	Meteorology and climatology, PG_00069284								
Field of study	Chemical Technology								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Corrosion and Electrochemistry -> Faculty of Chemistry -> Wydziały Politechniki Gdań					Gdańskiej			
Name and surname	Subject supervisor	prof. dr hab. inż. Juliusz Orlikowski							
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Project Seminar		SUM	
	Number of study hours	15.0	15.0	0.0	15.0	0.0		45	
	E-learning hours included: 0.0								
	eNauczanie source addresses: Moodle ID: 1097 Meteorologia i klimatologia https://enauczanie.pg.edu.pl/2025/course/view.php?id=1097								
Learning activity and number of study hours	Learning activity	Participation in classes include plan			udy	SUM			
	Number of study hours	45	5.0			25.0		75	
Subject objectives	The aim of the course is to present basic issues related to meteorology and climatology.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_W03] selects methods of data analysis, including statistical and modelling, useful for solving scientific and technological problems		Students learn about how numerical weather forecasts work.			[SW1] Assessment of factual knowledge			
	[K7_U06] applies computer, statistical and specialised database methods to solve scientific and technological problems in technology and related fields					[SU1] Assessment of task fulfilment			
	[K7_K01] critically evaluates the content of cognitive and practical problems		The student learns to identify the scientific causes of global warming.			[SK2] Assessment of progress of work			
Subject contents	Basics of dynamic meteorology. Climatic processes occurring on Earth. Physical processes occurring in the atmosphere. Evolution of low and high pressure systems. Types and types of atmospheric fronts. Types and types of cloud cover. Interpretation of aerological surveys. Particle balance in the atmosphere. Convective phenomena, convective indices, principles of numerical forecasts. Interpretation of satellite images. Obtaining synoptic and meteorological data								
Prerequisites and co-requisites	Basics of gas and liqu	uid physics							
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Lecture		60.0%		80.0%				
	Seminar		60.0%			20.0%			
Recommended reading	Basic literature		Nauka o klimacie, Marcin Popkiewicz, Aleksandra Kardaś, Szymon Malinowski. Warszawa, 2018 Meteorologia i klimatologia, Krzysztof Kożuchowski, Warszawa, 2012						

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	Supplementary literature	Meteorologia. Teoria i praktyka, Adam Kantorysiński, Warszawa 2019				
	eResources addresses	Basic https://enauczanie.pg.edu.pl/moodle/course/view.php?id=44871 - Access to the digital version of the course				
Example issues/ example questions/ tasks being completed	Preparation of a weather forecast for a specific place, based on the acquired synoptic data					
Work placement	Not applicable					

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