

Subject card

Subject name and code	Basic meteorology - lecture, PG_00159330						
Field of study	Oceanography						
Date of commencement of studies	October 2025		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	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Climate Research Laboratory -> Department of Physical Oceanography and Climate Research -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Janusz Filipiak				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		7.0		10.0	32
Subject objectives	Familiarize students with the basic physical processes occurring in the Earth's atmosphere.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	OCEANL3-W01		Knows and understands the terminology used in atmospheric sciences, knows and understands the basic physical processes occurring in the atmosphere		[SW4] test/exam - oral or written		
	OCEANL3-W02		Knows and understands the terminology used in atmospheric sciences, knows and understands the basic physical processes occurring in the atmosphere		[SW4] test/exam - oral or written		
	OCEANL3-U01		Is able to use current scientific terminology in presenting and discussing problems in the field of meteorology and is able to use methods of analyzing and presenting data in meteorology		[SU4] test/exam - oral or written		
	[OCEANL3-K05] is willing to take responsibility for the safety of his/ her own and others' work, is aware of the risks and threats resulting from the work performed		Is willing to continuously deepen a knowledge in the field of atmospheric sciences		[SK4] test/exam - oral or written		
	OCEANL3-U05		Is able to use current scientific terminology in presenting and discussing problems in the field of meteorology and is able to use methods of analyzing and presenting data in meteorology		[SU4] test/exam - oral or written		

Subject contents	A.1 Introduction. Structure and composition of the atmosphere. Radiation. Thermal processes in the atmosphere. A.2. Basic dynamic processes in the atmosphere. A.3. Water in the atmosphere. Vertical stability of the atmosphere. A.4. Clouds and precipitation. Storm phenomena. A.5. Global atmospheric circulation.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	obtaining a positive grade on the written test in accordance with the UG Academic Regulations.	51.0%	100.0%
Recommended reading	Basic literature	Kozuchowski, K., 2009, Meteorologia i klimatologia, PWN, Warszawa (in Polish)	
	Supplementary literature	Kopcewicz, 1968. Fizyka atmosfery. Tom III. PWN, Warszawa (in Polish) Moran, J.M., Morgan, M.D., Pauley, P.M., 1996, Meteorology: the atmosphere and the science of weather, Prentice Hall	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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