

Subject card

Subject name and code	ABC IT, PG_00044105						
Field of study	ABC IT (Ćw. laboratoryjne)						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	1		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Physical Oceanography -> Department of Physical Oceanography and Climate Research -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Gabriela Gic-Grusza				
	Teachers		dr Aleksandra Cupiał mgr Marta Misiewicz mgr Aleksandra Malecha-Łysakowska				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	20.0	0.0	0.0	20
	E-learning hours included: 0.0						
	eNauczanie source addresses: Moodle ID: 12985 ATC-WOiG-OCEAN-L3DZ-(2025/2026) ABC IT https://mdl.ug.edu.pl/course/view.php?id=12985						
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	20		2.0		10.0	32
Subject objectives	Introducing students to modern information technologies and how to apply them practically in analysis of Earth Science's data.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	OCEANL3-U11	Performs tasks using information technology, following the instructions provided during classes, using available options for sharing resources with other students.	[SU1] wypowiedź ustna/rozmowa/ dyskusja [SU8] obserwacja samodzielnej lub zespołowej pracy studenta
	OCEANL3-U05	Uses a range of basic tools and techniques in the field of information technology that are used to analyze and present data in Earth sciences. Works with datasets of various types and uses the best tools for their analysis and presentation.	[SU5] realizacja zadania problemowego [SU8] obserwacja samodzielnej lub zespołowej pracy studenta
	OCEANL3-U04	Using information technology and specialized software for environmental data analysis, utilizes available scientific literature databases and software technical documentation to solve occurring problems and select appropriate analytical techniques.	[SU1] wypowiedź ustna/rozmowa/ dyskusja [SU6] demonstracja umiejętności praktycznych
	OCEANL3-W05	Performs tasks using a wide range of exemplary oceanographic data, familiarizing oneself with a variety of techniques, research methods, and tools in the field of information technology used for environmental data analysis.	[SW2] prezentacja/projekt/referat/ raport [SW5] realizacja zadania problemowego
	[OCEANL3-K03] is ready to exercise caution and criticism in accepting information from scientific literature, the Internet and other media relating to natural sciences	While solving problems encountered when using information technology for processing environmental data, critically evaluates solutions available on the Internet and other media. Begins to consciously use artificial intelligence methods to solve the previously mentioned problems, critically evaluating the obtained results. Develops the habit of citing sources and information about the techniques used in their own work.	[SK1] wypowiedź ustna/rozmowa/ dyskusja [SK5] realizacja zadania problemowego [SK6] demonstracja umiejętności praktycznych
	[OCEANL3-K01] is willing to plan and implement, individually or as a team, the subsequent stages of the entrusted task, is willing to take responsibility for the results of these works, effectively cooperates in the team and performs various roles in it	Develops and presents datasets as part of practical tasks distributed over time, planning subsequent steps and the final form of the project.	[SK1] wypowiedź ustna/rozmowa/ dyskusja [SK5] realizacja zadania problemowego [SK8] obserwacja samodzielnej lub zespołowej pracy studenta
Subject contents			
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Projects undertaken during classes and individual work	51.0%	100.0%
Recommended reading	Basic literature	Wilson B. (1992): Information Technology: The Basics. Macmillan Publishers Limited 1992. https://doi.org/10.1007/978-1-349-12525-8 Przeździecki K., Sikorski W., Treichel W., Technologie informacyjne dla studentów, WITKOM, Warszawa, 2017 (in polish) Wrycza S., Maślankowski J. (red.), Informatyka ekonomiczna, PWN, Warszawa 2019 (in polish) Kawa R., Lembas J., Wstęp do informatyki, PWN, Warszawa, 2017 (in polish)	

	Supplementary literature	Żarowska-Mazur A., Węglarz W. (red.), ECDL Advanced na skróty. Edycja 2015, Warszawa: Wydawnictwo Naukowe PWN, 2015 (in polish) Walkenbach J., Microsoft Excel 2016 PL. Biblia, Helion, Gliwice 2016 (in polish) Bernstein J. (2018): Computers Made Easy. From Dummy To Geek. Independently published
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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