

Subject card

Subject name and code	ABC IT, PG_00044105						
Field of study	Oceanography						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
Education level	undergraduate 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					
Conducting unit	Pracownia Oceanografii Fizycznej -> Katedra Oceanografii Fizycznej i Badań Klimatu -> Faculty of Oceanography and Geography						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Gabriela Gic-Grusza				
	Teachers		dr Gabriela Gic-Grusza mgr 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						
	Additional information: If necessary, up to 15% hours can be taught online.						
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] oral statement/conversation/discussion [SU8] observation of student's independent or team work
	[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] oral statement/conversation/discussion [SK5] implementation of a problem task [SK6] demonstration of practical skills
	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] presentation/project/paper/report [SW5] implementation of a problem task
	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] oral statement/conversation/discussion [SU6] demonstration of practical skills
	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] implementation of a problem task [SU8] observation of student's independent or team work
	[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] oral statement/conversation/discussion [SK5] implementation of a problem task [SK8] observation of student's independent or team work
Subject contents	Introduction to basic tools used in the analysis and processing of oceanographic data. Demonstration of general principles of specialized software how to use its documentation. Completion of projects requiring selection of the best method for data presentation. Development of skills related to communication and teamwork, including resource sharing, email usage, and the benefits of using cloud services.		
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	<p>Wilson B. (1992): Information Technology: The Basics. Macmillan Publishers Limited 1992. https://doi.org/10.1007/978-1-349-12525-8</p> <p>Przeździecki K., Sikorski W., Treichel W., Technologie informacyjne dla studentów, WITKOM, Warszawa, 2017 (in polish)</p> <p>Wrycza S., Maślankowski J. (red.), Informatyka ekonomiczna, PWN, Warszawa 2019 (in polish)</p> <p>Kawa R., Lembas J., Wstęp do informatyki, PWN, Warszawa, 2017 (in polish)</p>
	Supplementary literature	<p>Żarowska-Mazur A., Węglarz W. (red.), ECDL Advanced na skróty. Edycja 2015, Warszawa: Wydawnictwo Naukowe PWN, 2015 (in polish)</p> <p>Walkenbach J., Microsoft Excel 2016 PL. Biblia, Helion, Gliwice 2016 (in polish)</p> <p>Bernstein J. (2018): Computers Made Easy. From Dummy To Geek. Independently published</p>
	eResources addresses	<p>Podstawowe</p> <p>https://stackoverflow.com/ - Forum with exchange of knowledge regarding issues and solutions in information technology</p> <p>https://www.esri.com/en-us/arcgis/products/arcgis-online/resources - A website with tutorials for spatial analysis.</p> <p>Adresy na platformie eNauczenie:</p> <p>ATC-WOiG-OCEAN-L3DZ-(2024/2025) ABC IT - Moodle ID: 12282</p> <p>https://mdl.ug.edu.pl/course/view.php?id=12282</p>
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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