University of Gdańsk

Subject card

Subject name and code	Information technology - laboratory exercises, PG_00054237		
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	2.0
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 Wojciech Brodziński	
	Teachers	dr Wojciech Brodziński mgr Aleksandra Cupiał	

Lesson types

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

E-learning hours included: 0.0

Additional information:

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	15.0	30.0	75

Subject objectives

Introducing students to modern information technologies and how to apply them practically in the analysis of oceanographic data.

Learning outcomes

Course outcome	Subject outcome	Method of verification
OCEANL3-W05	Learns a range of tools and techniques based on information technology that are used to analyze and present data in oceanography. Learns to work with datasets of various types and uses the best tools for their analysis and presentation. Learns office suite tools - principles of text editing, document editor functions, and spreadsheet functions.	[SW2] presentation/project/paper/ report [SW5] implementation of a problem task
[OCEANL3-K03] is ready to exercise caution and criticism in accepting information from scientific literature, the Internet and other media relating to natural sciences	Tests practical solutions to problems related to the use of information technology for oceanographic data analysis. Begins to use artificial intelligence methods to solve the previously mentioned problems, critically evaluating obtained results. Learns to use the documentation of the software used.	[SK6] demonstration of practical skills [SK8] observation of student's independent or team work
OCEANL3-U04	Familiarizes oneself with exemplary oceanographic databases and learns to search through them. Expands knowledge about databases with specialized literature and searches them using information technology.	[SU6] demonstration of practical skills [SU8] observation of student's independent or team work
OCEANL3-U11	Performs practical tasks related to the use of information technology, following the instructions provided during the classes, utilizing worth other students the available files' and resources-sharing options. Plans own’s work so that it is delivered on time.	[SU1] oral statement/conversation/ discussion [SU8] observation of student's independent or team work
OCEANL3-U05	Uses a range of basic tools and techniques originating from information technology that are used for analyzing and presenting oceanographic data. Works with datasets of various types and uses the best tools for their analysis and presentation.	[SU5] implementation of a problem task [SU6] demonstration of practical skills [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	Independently and in teams, performs practical tasks related to the use of information technology, demonstrating responsibility for the assigned elements of the task.	[SK1] oral statement/conversation/ discussion [SK8] observation of student's independent or team work

Subject contents

Standardize the level of knowledge among students regarding the use of basic data analysis and presentation tools. Prepare students to use basic information technologies as required by other subjects in the study program. Utilize office suite applications in oceanography. Select the best data presentation methods according to data types and utilizing this knowledge to present information on selected topic. Develop teamwork skills using resource-sharing tools

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Completion of partial tasks (homework, short tests, presentation)	51.0%	60.0%
Test	51.0%	40.0%

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	Podstawowe https://support.microsoft.com/pl-pl/excel - Website with tutorials in Excel https://stackexchange.com/ - Forum with exchange of knowledge regarding issues and solutions in information technology Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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