

Subject card

Subject name and code	Information technology, PG_00054189						
Field of study	Marine Hydrography						
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 Subject group related to practical vocational preparation		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish None		
Semester of study	1	ECTS credits			2.0		
Learning profile	practical	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				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	25.0	0.0	0.0	25
	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	25		5.0		20.0	50
Subject objectives	<p>The aim of the course is to acquire the knowledge, skills, and competencies necessary for further education in the field of study.</p> <ul style="list-style-type: none"> • Basic operations on files and directories. • Office suite: principles of text editing, functions of a document editor, functions of a spreadsheet. • Fundamentals of computer graphics. • Fundamentals of GIS. • Fundamentals of programming. 						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[HML3-W12] basic processes taking place in the life cycle of devices, facilities and technical systems	Knows and understands the importance of basic techniques, research methods and IT tools used in hydrography work to describe and interpret phenomena and processes in the aquatic environment	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report [SW5] implementation of a problem task
	[HML3-U07] effectively use information and communication techniques, including utility programs to solve professional problems	Understands the significance of basic techniques, research methods, and (IT) tools used in hydrographic work for describing and interpreting phenomena and processes occurring in the aquatic environment.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU3] text preparation/written work [SU4] test/exam - oral or written [SU5] implementation of a problem task [SU6] demonstration of practical skills [SU8] observation of student's independent or team work
	[HML3-U15] communicate using a variety of techniques, including non-verbal and different technical means in the professional environment and in other environments	Is able to use specialized computer software in the analysis of data and description of phenomena and processes occurring in the marine environment.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU3] text preparation/written work [SU4] test/exam - oral or written [SU5] implementation of a problem task [SU6] demonstration of practical skills [SU8] observation of student's independent or team work
	[HML3-U08] independently use the professional literature available in traditional and electronic form, make an assessment, critical analysis and synthesis as well as the correct interpretation of the information obtained	Is able to utilize source information, including archival and electronic databases, in the field of hydrographic issues, and performs critical analysis and synthesis of information.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU3] text preparation/written work [SU4] test/exam - oral or written [SU5] implementation of a problem task [SU6] demonstration of practical skills [SU8] observation of student's independent or team work
Subject contents	<ul style="list-style-type: none"> • Basic operations on files and directories. • Office suite: principles of text editing, functions of a document editor, functions of a spreadsheet. • Fundamentals of computer graphics. • Fundamentals of GIS. • Fundamentals of programming. 		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	determination of the final grade based on partial grades received during the semester	51.0%	100.0%
Recommended reading	Basic literature	<ul style="list-style-type: none"> • Slaying the Excel Dragon: A Beginners Guide to Conquering Excels Frustrations and Making Excel Fun • Excel Basics In 30 Minutes (2nd Edition): The Quick Guide to Excel and Google Sheets 	
	Supplementary literature	<ul style="list-style-type: none"> • Matthes E. (2015). Python Crash Course: A Hands-On, Project-Based Introduction to Programming. No Starch Press, 560. • Dale N., Lewis J. (2019): Computer Science Illuminated. Jones and Bartlett Publishers, Inc; 7th Revised edition 	
	eResources addresses	Adresy na platformie eNauczanie: WOiG-HYDRO-L3DZ-(2024/2025) Technologia Informacyjna - Moodle ID: 12350 https://mdl.ug.edu.pl/course/view.php?id=12350	
Example issues/example questions/tasks being completed	<ul style="list-style-type: none"> • Calculation tasks • Project on data processing and visualization 		
Work placement	Not applicable		

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