

Subject card

Subject name and code	Internet exploration, PG_00044131							
Field of study	Mathematics							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	3		Language of instruction			Polish		
Semester of study	5		ECTS credits			5.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Instytut Matematyki Stosowanej -> Faculty of Applied Physics and Mathematics							
Name and surname	Subject supervisor		dr inż. Magdalena Lemańska					
of lecturer (lecturers)	Teachers		dr inż. Magda	а				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	30.0	0.0	30.0	0.0		0.0	60
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM			
	Number of study hours	60	5.0			60.0		125
Subject objectives	Knowledge of Internet technologies. Skill to work in a computing cloud.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K6_U12		The student knows the basic Internet technologies. Can create a website and present the results of the completed task.		[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment			
	K6_K02		The student uses the technical documentation and the Internet to find a solution to the problem.			[SK5] Assessment of ability to solve problems that arise in practice		
	K6_W09		The student uses a software package to perform calculations.			[SW3] Assessment of knowledge contained in written work and projects		
	K6_K03		Student uses cloud computing to solve a mathematical problem. The student is able to organize remote work in a team using the available tools.			[SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills [SK3] Assessment of ability to organize work		
	K6_U07		The student is able to specify the problem. The student is able to recognize a problem that can be solved algorithmically. The student is able to choose a tool to solve the problem. The student is able to present the results on the Internet.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task		

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	1. Basic internet technologies. 2. The use of internet technologies to present the results of data analysis. 3. Creating dynamic websites. 4. Creating responsive websites. 5. Content management systems. 6. WWW servers. Website publishing. 7. Optimization and positioning of websites (SEO) 8. Computer clusters. 9. The concept of concurrent programming. 10. The concept of working in a cloud. 11. Clouds for computing. Lab: Implementation of practical tasks corresponding to the issues discussed during the lecture, including: 1. Website creating. 2. Data analysis on the Tryton cluster at GUT, which is part of the Information Center of the Tri-City Academic Computer Network (CI TASK). [If consent is given to create student accounts.] 3. Data analysis in cloud computing.						
Prerequisites and co-requisites	Computer skills. Access to the Internet.						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	,	0.0%	30.0%				
		50.0%	70.0%				
Recommended reading	Basic literature	Erl, Puttini, Mahmood, Cloud Computing: Concepts, Technology & Architecture, Pearson. Education, Prentice Hall, 2013. Technical documentation and tutorials (the list will be published on the learning platform).					
	Supplementary literature	Arshdeep Bahga, Vijay Madisetti, Cloud Computing: A Hands-On Approach, CreateSpace Independent Publishing Platform, 2013. Ray J Rafaels, Cloud Computing: From Beginning to End, CreateSpace Independent Publishing Platform, 2015.					
	eResources addresses	Adresy na platformie eNauczanie: Eksploracja internetu 2023/2024 - Moodle ID: 31268 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31268					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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