



Subject card

Subject name and code	Informatics II, PG_00048931						
Field of study	Materials Engineering, Materials Engineering, Materials Engineering						
Date of commencement of studies	October 2021	Academic year of realisation of subject				2022/2023	
Education level	first-cycle 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	2	Language of instruction				Polish	
Semester of study	3	ECTS credits				4.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Department of Corrosion and Electrochemistry -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Łukasz Gawel					
	Teachers	dr inż. Łukasz Gawel					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0	0.0	45
	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	45		5.0		50.0	100
Subject objectives	Mastering by the student the basics of operating Windows and its security as well as the principles of operation of the computer network and its individual components. In addition, the student will learn about the configuration of selected network devices and the use of basic tools used on the Internet. The acquired knowledge will be useful in the further course of studies, in future professional work and in everyday life when using modern electrical and electronic devices						
Learning outcomes	Course outcome	Subject outcome				Method of verification	
	K6_W05	The student knows the construction and application of basic network devices and the use of popular operating systems.				[SW1] Assessment of factual knowledge	
	K6_U04	The student knows the possibilities of network connections with measuring devices and how to implement them				[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject	
	K6_W01	The student knows and is able to use the available programs and operating systems to solve the problems encountered				[SW1] Assessment of factual knowledge	
	K6_K01	The student is able to use various sources of documentation in the field of computer operation				[SK5] Assessment of ability to solve problems that arise in practice	

Subject contents	Lectures: 1. Windows system - security, users and data protection 2. Basics of computer network 3. Local network 4. Global network 5. Network protocols 6. Creating websites 7. Programming in TinkerCAD											
Prerequisites and co-requisites	Basics of mathematics and computer science General computer literacy Basic ability to use Microsoft operating systems											
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 748 794 779">Subject passing criteria</th> <th data-bbox="799 748 1137 779">Passing threshold</th> <th data-bbox="1142 748 1485 779">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 786 794 817">Lecture</td> <td data-bbox="799 786 1137 817">60.0%</td> <td data-bbox="1142 786 1485 817">30.0%</td> </tr> <tr> <td data-bbox="456 824 794 855">Laboratory</td> <td data-bbox="799 824 1137 855">60.0%</td> <td data-bbox="1142 824 1485 855">70.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Lecture	60.0%	30.0%	Laboratory	60.0%	70.0%
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Lecture	60.0%	30.0%										
Laboratory	60.0%	70.0%										
Recommended reading	Basic literature	K. Barksdale- Internet BASICS R. Scott- Networking for Beginners										
	Supplementary literature	Documentation on the Internet - lectures and films on popular websites										
	eResources addresses	Adresy na platformie eNauczanie: Informatyka II 2022 - Moodle ID: 25090 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=25090										
Example issues/ example questions/ tasks being completed	What are the types of computer networks? Internet network configuration using network settings How to communicate with the output device?											
Work placement	Not applicable											

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