



## 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 Electrochemistry, Corrosion and Materials Engineering -> 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 scienceGeneral computer literacyBasic ability to use Microsoft operating systems		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	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 <a href="https://enauczenie.pg.edu.pl/moodle/course/view.php?id=25090">https://enauczenie.pg.edu.pl/moodle/course/view.php?id=25090</a>	
Example issues/ example questions/ tasks being completed	What are the types of computer networks?Internet network configuration using network settingsHow to communicate with the output device?		
Work placement	Not applicable		