



Subject card

Subject name and code	Information Technology, PG_00039930						
Field of study	Management and Production Engineering, Management and Production Engineering						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2020/2021		
Education level	first-cycle studies	Subject group			Obligatory subject group in the field of study 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	1	Language of instruction			Polish		
Semester of study	1	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Manufacturing and Production Engineering -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Tadeusz Bocheński					
	Teachers	dr inż. Tadeusz Bocheński dr inż. Dawid Zieliński dr hab. inż. Stefan Dzionk dr inż. Norbert Piotrowski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	15.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0 Adresy na platformie eNauczanie:						
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	5.0	40.0	75		
Subject objectives	The basic knowledge in the area of information technology - IT.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K6_K01	Ability to work independently			[SK4] Assessment of communication skills, including language correctness		
	K6_U09	Getting acquainted with IT techniques used in industry			[SU1] Assessment of task fulfilment		
	K6_W03	Skills in the use of IT techniques in the field of systems and equipment			[SW3] Assessment of knowledge contained in written work and projects		
Subject contents	Formal methods of information engineering, electronic documents and digital libraries (1). Networks (1). The use of robots in industry and medicine (1). Telemedicine and e-health (2), e-business, e-manufacturing (2). Engineering and knowledge management, intelligent information services (2). The reliability and security, development of information society, electronic Infosystem (1). Reporting and Data Analysis (1). Manage relationships with internal and external customers (1). Information systems used to manage the processes of production and engineering support (2). Polish IT market, global trends in the development of information technology (1).						
Prerequisites and co-requisites	Basics of informatics, Internet, ability to use MS Office						
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	Midterm colloquium	50.0%			50.0%		
	Practical exercise	50.0%			50.0%		

Recommended reading	Basic literature	<p>1. Zarządzanie i technologie informacyjne. t. 1: komunikacja w dobie Internetu, red. Barbara Kożuszniak, Wydawnictwo Uniwersytetu Śląskiego, Katowice 2004.</p> <p>2. Zarządzanie i technologie informacyjne. t. 2: metody sztucznej inteligencji w zarządzaniu i sterowaniu, red. Joanna Józefowska, Wydawnictwo Uniwersytetu Śląskiego, Katowice 2005.</p> <p>3. Podstawy Robotyki. Wprowadzenie do Teorii i Elementów Manipulatorów i Robotów, red. naukowy – Morecki A., WNT, Warszawa 1998.</p> <p>4. Technologie informacyjne. Zeszyty Naukowe Wydziału ETI Politechniki Gdańskiej. Od roku 2005.</p>
	Supplementary literature	1. MSI – Manufacturing Systems Information POLSKA, miesięcznik wydawany na licencji Manufacturing Business Technology (prenumerowany na bieżąco od 2005 roku przez prowadzących zajęcia).
	eResources addresses	
Example issues/ example questions/ tasks being completed	Types of databases. Examples of relational databases. Types of CAx systems. ERP / MRP. Digital workflow documentation. Cloud computing.	
Work placement	Not applicable	