GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Information Technology, PG_00050335
Field of study	Mechanical Engineering, Mechanical 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
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
		mgr inż. Karolina Miętka
		dr inż. Krzysztof Doerffer
		dr inż. Dawid Zieliński
		dr inż. Norbert Piotrowski

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	20.0	0.0	0.0	0.0	35
	E-learning hours included: 0.0						
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8135 Adresy na platformie eNauczanie: Information Technology - Moodle ID: 8135 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8135						

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	35	5.0	35.0	75

Subject objectives	The basic knowledge in the area of information technology - IT.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_K01] is aware of the need for complementing the knowledge throughout the whole life, is able to select proper methods of teaching and learning, critically assesses the possessed knowledge; is aware of the importance of professional conduct and following the rules of professional ethics; is able to show resourcefulness and innovation in the realisation of professional projects	Getting to know information techniques used in industry	[SK4] Assessment of communication skills, including language correctness
	[K6_U03] is able to identify, formulate and develop the documentation of a simple design or technological task, including the description of the results of this task in Polish or in a foreign language and to present the results using computer software or other aiding tools	Skills in using information technology in the field of systems and equipment	[SU3] Assessment of ability to use knowledge gained from the subject

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
	Practical exercise	50.0%	50.0%
	Midterm colloquium	50.0%	50.0%
Recommended reading	Basic literature	1. Zarządzanie i technologie informacyjne. t. 1: komunikacja w dobie Internetu, red. Barbara Kożusznik, Wydawnictwo Uniwersytetu Śląskiego, Katowice 2004. 2. Zarządzanie i technologie informacyjne. t. 2: metody sztucznej inteligencji w zarządzaniu i sterowaniu, red. Joanna Józefowska, Wydawnictwo Uniwersytetu Śląskiego, Katowice 2005. 3. Podstawy Robotyki. Wprowadzenie do Teorii i Elementów Manipulatorów i Robotów, red. naukowy -- Morecki A., WNT, Warszawa 1998. 4. Technologie informacyjne. Zeszyty Naukowe Wydziału ETI Politechniki Gdańskiej. Od roku 2005.	
	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	Information Technology - Moodle ID: 8135 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8135	
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		