

Subject card

Subject name and code	Information technology in the management of production, PG_00040010								
Field of study	Management and Production Engineering, Management and Production Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
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	6		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Zakład Materiałoznawstwa I Technologii Materiałowych -> Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname	Subject supervisor		prof. dr hab. inż. Dionizy Czekaj						
of lecturer (lecturers)	Teachers		dr inż. Mieczysław Siemiątkowski						
			prof. dr hab. inż. Dionizy Czekaj						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	30.0	15.0		0.0	60	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Learning activity Participation in classes include plan				Self-study SUM			
	Number of study 60 hours		7.0		33.0		100		
Subject objectives	The aim of the course is to acquaint students with the techniques of computer support the management of production and product development.								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	K6_U01		The student obtains the necessary information for the task from the professional literature.			[SU2] Assessment of ability to analyse information			
	K6_W05		The student has knowledge of the operation of production systems and the analysis of production processes.			[SW1] Assessment of factual knowledge			
	K6_U03		The student is able to communicate freely in the field of technical sciences, especially in the area related to management and production engineering.			[SU3] Assessment of ability to use knowledge gained from the subject			
	K6_K01		The student seeks information on modern management techniques using CAx systems.			[SK5] Assessment of ability to solve problems that arise in practice			
Subject contents	The role of IT in a modern enterprise. The state of IT management in enterprises. Optimal use of IT resources. IT risk management. Measurement of IT efficiency. Computer-aided CAD/CADD design. Models used in design. CAD programs. Methods of designing elements in the CAD system. CAD tools and directions of development. Computer-aided engineering analysis CAE. Computer-aided CAM manufacturing. Capabilities of CAD/CAM systems. CAx systems in production engineering. Presentation of selected methods of econometric analysis. Solving econometric problems using the GRETL program								
Prerequisites and co-requisites		·	-	·			. •		
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Project		100.0%			30.0%			
	Written Exam				40.0%				
	Laboratory Classes		100.0%	100.0%			30.0%		

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Recommended reading	Basic literature	Anil Mital, Anoop Desai, Anand Subramanian, Aashi Mital: Product development, Butterworth-Heinemann is an inprint Elsevier, 30 Corporate Drive, Suite 400, Burlington MA 01803 USA, 2008.					
	Supplementary literature	Meyer Kutz, Mechanical Engineers' Handbook -Manufacturing and Management, John Wiley &Sons, INC, Hoboken New Jersey, 2006					
	eResources addresses	Adresy na platformie eNauczanie:					
		Techniki informacyjne w zarządzaniu produkcją, W, ZJiISP, sem.06, letni 22/23 - Moodle ID: 29720 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29720					
		Techniki informacyjne w zarządzaniu produkcją, W, ZJiISP, sem.06, letni 22/23 - Moodle ID: 29720 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29720					
		Techniki informacyjne w zarządzaniu produkcją, W, ZJiISP, sem.06, letni 22/23 - Moodle ID: 29720 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29720					
Example issues/ example questions/ tasks being completed	Optimal use of IT resources IT risk manage ment Measurement of IT efficiency CAx systems in production engineering.						
Work placement	Not applicable						

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