



Subject card

Subject name and code	, PG_00054587						
Field of study	Engineering Management						
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			3.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Katedra Inżynierii Zarządzania i Jakości -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Grzegorz Zieliński				
	Teachers		dr inż. Grzegorz Zieliński				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0	0.0	30
	E-learning hours included: 0.0						
Quick Response Manufacturing LATO 2022/2023 DZIENNE - Moodle ID: 29187 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29187							
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		4.0		41.0	75
Subject objectives	The aim of the subject is to familiarize students with the concept of Quick Response Manufacturing and its impact on the reduction of orders in enterprises						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U08] analyses engineering and managerial solutions in decision-making processes, taking into account pro-quality and pro-environmental aspects, as well as safety of work processes		The student analyzes engineering solutions in the field of making decisions focused on optimizing production processes		[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfillment [SU4] Assessment of ability to use methods and tools		
	[K6_W13] has a basic knowledge of the design, modelling and optimisation of technical processes and systems		The student has basic knowledge in the field of modeling and optimizing processes focused on shortening lead time		[SW3] Assessment of knowledge contained in written work and projects		
Subject contents	The world of VucaPillars Quick Response Manufacturing White and gray times Construction of MCT maps Creating cells based on FTMS Quick Response Office Center Quick Response Cell						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	project		60.0%		100.0%		

Recommended reading	Basic literature	Rajan Suri Zyskaj na Czasie, Wyd MT Biznes 2017Knosala R., Inżynieria Produkcji, Kompendium Wiedzy, Wyd. PWE Warszawa 2017Szatkowski K., Nowoczesne zarządzanie produkcją, Wyd. PWN Warszawa 2014
	Supplementary literature	Pająk E., Zarządzanie produkcją, Wyd PWN Warszawa 2021Rajan Suri Przewodnik po MCT, Wyd 4Results, QRM Institute Polska
	eResources addresses	
Example issues/ example questions/ tasks being completed	Discuss the construction of the MCT map Discuss 4 QRM pillars Build a QROC on the basis of selected FTMS	
Work placement	Not applicable	