

Subject card

Subject name and code	, PG_00054587								
Field of study	Engineering Management								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024			
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			e-learning			
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	Subject supervisor	dr inż. Grzegorz Zieliński							
of lecturer (lecturers)	Teachers		dr inż. Grzegorz Zieliński						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM	
	Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
	E-learning hours included: 30.0								
Learning activity and number of study hours	Learning activity	ctivity Participation in dida classes included in plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30	4		4.0			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_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			
[K6_U08] analyses engineerin and managerial solutions in decision-making processes, ta into account pro-quality and prenvironmental aspects, as well safety of work processes		tions in cesses, taking lity and pro- cts, as well as	The student analyzes engineering solutions in the field of making decisions focused on optimizing production processes			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject			
Subject contents	The world of VucaPillars Quick Response ManufacturingWhite and gray timesConstruction of MCT mapsCreating cells based on FTMSQuick Response Office CenterQuick Response Cell								
Prerequisites and co-requisites									
Assessment methods	Subject passin	g criteria	Pass	ing threshold		Per	centage of the	e final grade	
and criteria	project		60.0%	•		100.0%		-	

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Recommended reading	Basic literature					
T toooniiii on dod Toddiiiig		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	Adresy na platformie eNauczanie:				
		Quick Response Manufacturing sem letni 2023/2024 - Moodle ID: 35986 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=35986				
Example issues/ example questions/ tasks being completed	Discuss the construction of the MCT mapDiscuss 4 QRM pillarsBuild a QROC on the basis of selected FTMS					
Work placement	Not applicable					

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