

Subject card

Subject name and code	, PG_00054587								
Field of study	Engineering Management								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025			
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	Department of Management Engineering and Quality -> Faculty of Management and Economics						cs		
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	t	Seminar	SUM	
	Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	ing activity Participation in didac classes included in s plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	f study 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		decisions focused on optimizing			[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			
	[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 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		ing threshold			centage of the	e final grade	
and criteria	project		60.0%			100.0%			

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Recommended reading	Basic literature				
Trecommended reading		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 lato 2025 - ZI Dzienne - Moodle ID: 43296 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=43296			
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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