



Subject card

Subject name and code	CONTEMPORARY PRODUCTION MANAGEMENT CONCEPTS, PG_00061377						
Field of study	Engineering Management						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2026/2027		
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		7.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Management Engineering And Quality -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Joanna Czerska				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	45.0	0.0	0.0	75
	E-learning hours included: 0.0						
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	75		12.0		88.0	175
Subject objectives	Formulates and implements creative production management concepts using modern advanced methods						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U05] designs innovative solutions for complex management processes, using appropriate methods and techniques		designs implementations of innovative production management processes, selecting methods ensuring high efficiency		[SU4] Assessment of ability to use methods and tools		
	[K6_W04] demonstrates creative and entrepreneurial activity in formulating and implementing innovative ideas		shows creativity in the design of modern production processes, using advanced knowledge		[SW1] Assessment of factual knowledge		
Subject contents	Lean manufacturing Basic concepts related to Lean Manufacturing Problem solving 5S - engaging in the perception and elimination of waste Gemba Walk - identifying problems in processes Standardization of work Milk run - organization of supplying stations with materials Poka-yoke - right the first time SMED - shortening changeover times Kamishibai - layered standards auditing One point lesson - communication of changes in processes Quick Response manufacturing VUCA world Quick Response Manufacturing pillars 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%		60.0%		
	Lecture test		60.0%		40.0%		

Recommended reading	Basic literature	Czerska J, Podstawowe narzędzia Lean Manufacturing, LeanQ Team, 2014 Czerska J, Doskonalenie strumienia wartości, wyd 2, LeanQ Team, 2014 Czerska J (red.) Poradnik Młodego Lean Lidera, Lean Education, 2019 Rajan Suri Zyskaj na Czasie, Wyd MT Biznes 2017 Knosala R., Inżynieria Produkcji, Kompendium Wiedzy, Wyd. PWE Warszawa 2017 Szatkowski K., Nowoczesne zarządzanie produkcją, Wyd. PWN Warszawa 2014
	Supplementary literature	Pająk E., Zarządzanie produkcją, Wyd PWN Warszawa 2021 Rajan Suri Przewodnik po MCT, Wyd 4Results, QRM Institute Polska
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Discuss the construction of the MCT map Discuss the 4 pillars of QRM Build a QRoc based on selected FTMS Use the Lean Management tool in relation to the given problem in the form of a case study	
Work placement	Not applicable	

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