

Subject card

Subject name and code	Modern Concepts of Production Management, PG_00067394							
Field of study	Engineering Management							
Date of commencement of studies	October 2025		Academic year of realisation of subject			2027/2028		
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	Subject supervisor	ubject supervisor						
of lecturer (lecturers)	Teachers						1	•
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	15.0	60.0	0.0	0.0		0.0	75
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study		SUM	
	Number of study hours	75		5.0		95.0		175
Subject objectives	Formulates and implements creative production management concepts using modern advanced methods							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K6_K03] is prepared to critically assess the knowledge they possess, which is necessary for solving cognitive and practical problems, and to supplement any gaps with opinions from external experts.		is able to reflect on their approach to production management challenges, identify areas requiring deeper insight, and seek expert input when the complexity of the issue demands it.			[SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice		
	[K6_W07] knows and understands advanced methods for analyzing the management process in technical, legal, economic, financial, and social contexts.		is familiar with approaches used in modern production management and understands how to consider various organizational and external factors when evaluating the effectiveness of operational solutions			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U05] designs innovative solutions for complex management processes by utilizing appropriate methods and techniques.		is able to develop improvements in production process management by selecting approaches and tools suited to the nature of the problem and the operational context of the enterprise			[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools		

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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	Czerska J, Podstawowe narzędzia Lean Manufac 2014 Czerska J, Doskonalenie strumienia wartości, wy 2014 Czerska J (red.) Poradnik Młodego Lean Lidera, Rajan Suri Zyskaj na Czasie, Wyd MT Biznes 20 Knosala R., Inżynieria Produkcji, Kompendium W Warszawa 2017 Szatkowski K., Nowoczesne zarządzanie produk Warszawa 2014		a wartości, wyd 2, LeanQ Team, Lean Lidera, Lean Education, 2019 MT Biznes 2017 ompendium Wiedzy, Wyd. PWE				
	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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