

Subject card

Subject name and code	Modern Concepts of Production Management, PG_00068514							
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	Part-time studies (on-line)		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							
of lecturer (lecturers)	Teachers			1	_			_
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	8.0	32.0	0.0	0.0		0.0	40
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity Participation ir classes includ plan				Self-study S		SUM	
	Number of study hours			6.0		129.0		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 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		
	[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_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.					[SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice		

Data wygenerowania: 08.05.2025 07:54 Strona 1 z 2

	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	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Lecture test	60.0%	40.0%				
	Project	60.0%	60.0%				
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 questions/	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						

Document generated electronically. Does not require a seal or signature.

Data wygenerowania: 08.05.2025 07:54 Strona 2 z 2