GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	CONTEMPORARY PRODUCTION MANAGEMENT CONCEPTS, PG_00061864		
Field of study	Engineering Management		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2025/2026
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	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	dr inż. Joanna Czerska	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	16.0	0.0	24.0	0.0	0.0	40

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	40	12.0	123.0	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

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Project</td><td>60.0%</td><td>60.0%</td></tr>
<tr><td>Lecture test</td><td>60.0%</td><td>40.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>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</td></tr>
<tr><td>Supplementary literature</td><td>Pająk E., Zarządzanie produkcją, Wyd PWN Warszawa 2021
Rajan Suri Przewodnik po MCT, Wyd 4Results, QRM Institute Polska</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">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</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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