

Subject card

Subject name and code	Production Management, PG_00068031							
Field of study								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2026/2027		
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study		
						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	2		Language of instruction			Polish		
Semester of study	3		ECTS credits			7.0		
Learning profile	general academic profile		Assessment form			exam		
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							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM
of instruction	Number of study hours	30.0	0.0	15.0	30.0		0.0	75
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity Participation in classes including plan				Self-study		SUM	
	Number of study 75 hours			5.0		95.0		175
Subject objectives	Designs production processes based on data and good practices in production management, preparing the project for implementation in everyday production.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K6_W04] possesses advanced knowledge of the principles of creative and entrepreneurial activity, enabling the identification and implementation of innovative ideas while ensuring compliance with copyright protection requirements.		has knowledge of approaches that support the implementation of innovative solutions in production settings, taking into account formal and regulatory aspects related to the protection of creativity and innovation			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_K01] is ready to fulfill professional roles responsibly, taking legal, ethical, and cultural aspects into account in decision-making processes.		makes decisions related to the organization of production processes with awareness of their impact on the social environment, applicable standards, and organizational and cultural conditions			[SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice		
	[K6_U06] acquires specialized knowledge in the field of engineering management, demonstrating the ability to effectively plan individual work and pursue lifelong learning.		is able to independently expand their knowledge in production management, effectively organizing their work and adapting to evolving technological and organizational conditions			[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject		

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Subject contents	Introduction						
oubject contents							
	Basic concepts related to production management Organization of information and material flow in production processes with elements of logistics management in production Production management concepts and current trends in production management Product design and technology Input from the R&D department: product design and bill of materials Input data from the technology department: technological operations, product labor consumption, list of machines Map of the manufacturing process. Cycle time of an employee, machine, product Designing generation capacity taking into account seasonal demand Customer tact calculation Calculation of the number of employees, taking into account holidays and absenteeism Production efficiency management Analysis of effectiveness and efficiency losses (OEE, Pareto losses) Fundamentals of maintenance management. Total Productive Maintenance Production flexibility management. Techniques for increasing production flexibility Flexibility calculation (EPE) for job and process Rules for determining the minimum production lot (MOQ and EOQ) Flow design Workforce Analysis and workload Balancing (Yamazumi) Principles of designing a production cell Employee competency management Capselication of work and levels of competence Verification of the employee's knowledge and skills Standardization of work and levels of competence Verification of work and levels of competence On-the-job training. Methods of instruction and principles of conducting instruction Indicators (KPI) in production management Where do they come from and why are they important. How to obtain data for calculating indicators Visual performance management						
	Rules for monitoring losses at workstations Environmental aspects in production						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Project	60.0%	50.0%				
	Quizzes and tasks	70.0%	30.0%				
	Exam	60.0%	20.0%				
Recommended reading	Basic literature Goldratt E., Cox J.: Cel 1. Doskonałość w produkcji., Mint Books, 2008 Liker J.K.: Droga Toyoty. 14 zasad zarządzania wiodącej firmy produkcyjnej świata, MT Biznes, 2016 Czerska J., Pozwól płynąć swojemu produktowi, Placet, 2011						
	Supplementary literature Parmenrer D. Kluczowe wskaźniki efektywności (KPI). Tworzenie, wdrażania i stosowanie. Wyd 3, One press, 2016						
	eResources addresses Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Designing the product according to the customer's requirements, designing the manufacturing process, managing the results of the production process; designing a production control system, taking into account inventory in the production process						
Work placement	Not applicable						

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