

Subject card

Subject name and code	PRODUCTION MANAGEMENT, PG_00061448								
Field of study	Engineering Management								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study Subject group related to scientific			
Mode of study	Part-time studies (on-line)		Mode of delivery			research in the field of study at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			5.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Manag	Department of Management Engineering and Quality -> Faculty of Management and Economics						CS CS	
Name and surname	Subject supervisor	, ,	dr inż. Joanna Czerska						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	16.0	0.0	0.0	16.0		0.0	32	
	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	32		7.0		86.0		125	
Subject objectives	Analyzes production processes, conducting their multidimensional critical assessment in preparation for the implementation of innovative improvement activities								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W03] identifies reliable sources of information relevant to the analyzed issues		correctly interprets all components of the production process, preparing a set of reliable information needed for its analysis, improvement and design as well as making responsible operational decisions			[SW1] Assessment of factual knowledge			
	[K6_U05] designs in solutions for complex management proces appropriate methods techniques	designs innovative solutions for production processes, taking into account technological, economic and environmental factors as well as customer needs			[SU1] Assessment of task fulfilment				

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	Introduction						
Subject 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 Fundamentals of maintenance management. Total Productive Maintenance 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) 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 Load Balancing (Yamazumi) Principles of designing a production cell Employee competency management Competency matrices, methods of assessing the complexity of competencies, planning an employee's development path Classification of work at the workstation Classification of work and levels of competence Verification of the employee's knowledge and skills Standardization of work Types of work standards and principles of building standards 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 Uses for monitoring losses at workstations Environmental aspects in production						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Exam	60.0%	30.0%				
	Quizzes and tasks	70.0%	20.0%				
	Project	60.0%	50.0%				
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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