



Subject card

Subject name and code	PRODUCTION MANAGEMENT, PG_00061177						
Field of study	Management						
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		English		
Semester of study	3		ECTS credits		4.0		
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 of lecturer (lecturers)	Subject supervisor		dr inż. Joanna Czerska				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	30.0	0.0	0.0	0.0	45
	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	45		8.0		47.0	100
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_W05] integrates data from many sources to analyze complex problems of modern management		integrates the data of 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_U04] formulates logical solutions to complex or unstructured problems		designs innovative solutions for production processes, taking into account technological, economic and environmental factors as well as customer needs		[SU3] Assessment of ability to use knowledge gained from the subject		
Subject contents	Introduction to Production Management Key Performance Indictors& Daily Management Efficiency management Total productive maintenance Flexibility management Workload management Competency management Work standardization Job instruction Safety awareness management Environmental management in production Production workflow management Production workflow management (ERP and MES)						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Quizzes		60.0%		20.0%		
	Tasks		60.0%		50.0%		
	Exam		60.0%		30.0%		

Recommended reading	Basic literature	The Goal: A Process of Ongoing Improvement, Goldratt Eliyahu M. The Toyota Way, Second Edition: 14 Management Principles from the World's Greatest Manufacturer, Liker Jeffrey K.
	Supplementary literature	Ahuja, Inderpreet P. Singh, and Jaimal Singh Khamba. Total productive maintenance: literature review and directions. International journal of quality & reliability management (2008) Adam S. Markowski, Agata Kotynia, Bow-tie model in layer of protection analysis, Process Safety and Environmental Protection, Volume 89, Issue 4, 2011 Market orientation practices enhancing corporate environmental performance via knowledge creation: Does environmental management system implementation matter?, Wenbo Jiang Francesco Rosati Huaqi Chai Taiwen Feng Environmental management system according to ISO 14001:2015 as a driver to sustainable development, Laura Bravi Gilberto Santos Alessandro Pagano Federica Murmura Does environmental management system foster corporate green innovation? The moderating effect of environmental regulation, Dayuan Li, Fei Tang & Jialin Jiang An integrated approach to environmental management, E A Zhirnova, I V Trifanov, O A Sukhanova and V I Trifanov ISO 14000: Assessing Its Perceived Impact on Corporate Performance, Frank Montabon, Steven A. Melnyk, Robert Sroufe, Roger J. Calantone
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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