

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	PRODUCTION ENGINEERING, PG_00061336								
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 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	4		ECTS credits			5.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department Of Management Engineering And Quality -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej						nics ->		
Name and surname	Subject supervisor	dr inż. Jolanta Łopatowska							
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	30.0	0.0	0.0		0.0	60	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan	n didactic led in study	Participation in consultation hours		Self-study		SUM	
	Number of study hours	60		7.0		58.0		125	
Subject objectives	Understanding the essence of production planning and control system at every level of operational activity and acquiring the ability to design solutions that ensure the efficient course of production process.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K6_U05] designs innovative solutions for complex management processes, using appropriate methods and techniques		Designs solutions for production planning and control using modern analytical and design methodologies			[SU4] Assessment of ability to use methods and tools			
	[K6_W03] identifies reliable sources of information relevant to the analyzed issues		identifies key factors affecting the effective functioning of production systems			[SW1] Assessment of factual knowledge			
Subject contents	Production system and production process Activities in production planning and control Forecasting in demand planning Capacity planning Sales and operations planning S&OP Master production schedule MPS. Sequence of tasks Push and pull strategies. Planning and control in MRPII/ERP, APS, MES systems Balancing production (OPF) in JiT systems, heijunka. Kanban system, supermarket Production control according to the Theory of Constraints, DBR methodng in IMS systems								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	exam		60.0%		50.0%				
	l est Reports		60.0%			25.0%			
	Reports		160.0% [25.0%						
Recommended reading			Placet. Waters, D. (2021). Zarządzanie operacyjne. Towary i usługi, Warszawa: Wydawnictwo Naukowe PWN. Bozarth C., Handfield R(2021). Wprowadzenie do zarządzania operacjami I łańcuchem dostaw. Helion						

	Supplementary literature	Balle, F., Balle, M. (2023). Kopalnia złota, Wrocław Goldratt, M. Cox, J. (2023). Cel. Doskonałość w produkcji, Mint Bo Pająk, E (2021). Zarządzanie produkcją, Warszawa: Wydawnictw Naukowe PWN The Productivity Press Development Team.(2010). Kanban na hal produkcyjnej, Prod.Publishing			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	Sales ona operations planning S&OP Characteristics of the drum-buffer-rope method				
Work placement	Not applicable				

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