

## Subject card

Subject name and code	PRODUCTION ENGINEERING, PG_00061402								
Field of study	Engineering Management								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025			
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	Part-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 Manag	ering and Quality -> Faculty of Management and Economics							
Name and surname	Subject supervisor dr inż. Jolanta Łopatowska								
of lecturer (lecturers)	Teachers		dr inż. Jolanta Łopatowska						
			dr inż. Elwira						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	16.0	16.0	0.0	0.0		0.0	32	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM				
	Number of study hours	32		7.0		86.0		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 outcome		Subject outcome			Method of verification			
	[K6_U05] designs innovative solutions for complex management processes, using appropriate methods and techniques					[SU4] Assessment of ability to use methods and tools			
	[K6_W03] identifies reliable sources of information relevant to the analyzed issues					[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 methods.								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	exam					50.0%	50.0%		
	Test					25.0%			
	Reports		60.0%			25.0%			

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Recommended reading	Basic literature	Brzeziński, M. (2002). Organizacja i sterowanie produkcją, Warszawa: 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 Books Pająk, E. (2021). Zarządzanie produkcją, Warszawa: Wydawnictwo Naukowe PWN The Productivity Press Development Team.(2010). Kanban na hali produkcyjnej, Prod.Publishing		
	eResources addresses	Adresy na platformie eNauczanie: Inżynieria produkcji Nst 2024/2025 sem.letni - Moodle ID: 42872 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=42872		
Example issues/ example questions/ tasks being completed	sales and operations planning S&OP drum-buffer-rope method			
Work placement	Not applicable			

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