

## Subject card

Subject name and code	Production Engineering, PG_00040526							
Field of study	Engineering Management							
Date of commencement of studies	October 2022		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	3		Language of instruction			Polish		
Semester of study	5		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Department of Industrial Management -> Faculty of Management and Economics							
Name and surname	Subject supervisor dr inż. Jolanta Łopatowska							
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Tutorial Laboratory Project		: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		Participation in consultation hours		Self-study		SUM
	Number of study hours	32		8.0		60.0		100
Subject objectives	The aim of the course is to understand the essence of production planning and control at every level of operational activity and to acquire the skills to ensure the efficient running of production processes.							
Learning outcomes	Course outcome Subject outcome Method of verification							
	[K6_U11] can plan and control production and production quality, including the identification and formulation of specifications for simple engineering tasks		Uses basic methods of production planning and control.			[SU4] Assessment of ability to use methods and tools		
	[K6_W10] has the knowledge of the life cycle of the production system and the product		Identifies elements of the production system. Decomposes the production system.			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_W12] has a basic knowledge of production management and occupational safety and ergonomics management, as well as information technologies necessary for engineering management		in the planning and control			[SW3] Assessment of knowledge contained in written work and projects		
Subject contents	Production system and production process. Decomposition of the production system. Activities in production planning and control. Demand forecasting. Planning of production capacity. Sales and operations planning S&OP). Maste plan scheduling The order of tasks. Pull and push concepts. Production planning and control according to MRP. Planning and control in MRPII / ERP systems. Balancing production in JiT systems (OPF), heijunka. Kanban system, supermarket. Production planning and control according to the Theory of Constraints, DBR method.							
Prerequisites and co-requisites	production management							
Assessment methods	ent methods Subject passing criteria		Passing threshold		Percentage of the final grade			
and criteria	colloquium		60.0%		25.0%			
	reports		50.0%		25.0%			
	exam		60.0%			50.0%		
Recommended reading	Basic literature  Brzeziński M.: Organizacja i sterowanie produkcją. Placet, Warszaw 2002 Waters D.: Zarządzanie operacyjne. Towary i usługi. PWN, Warszawa 2012 Bozarth C., Handfield R.: Wprowadzenie do zarządzania operacjami I łańcuchem dostaw. Helion 2007				PWN,			

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	Supplementary literature	Goldratt M. Cox J.: Cel. Doskonałość w produkcji, Mint Books 2008 Pasternak K.: Zarys zarządzania produkcją, PWE 2005 Pająk E.: Zarządzanie produkcją, PWN 2006, Pająk E., Klimkiewicz M., Kosieradzka A., Zarządzanie produkcją i usługami, PWE, 2014. The Productivity Press Development Team: Kanban na hali produkcyjnej Prod.Publishing, 2010, Balle F., Balle M.: Kopalnia złota, Lean Enterprise Institute, Wrocław 2013			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	Strategies for building sales and operations. plans S&OP				
	Characteristics of the method of drum-buffer-rope.				
Work placement	Not applicable				

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