

Subject card

Subject name and code	Production Engineering, PG_00040526								
Field of study	Engineering Management								
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Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
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	Faculty of Management and Economics								
Name and surname	Subject supervisor		dr inż. Jolanta	Lopatowska					
of lecturer (lecturers)	Teachers		dr inż. Jolanta Łopatowska						
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 inclu	ıded: 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		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			
	of production manag occupational safety a	al safety and s management, as well tion technologies for engineering		in the planning and control			[SW3] Assessment of knowledge contained in written work and projects		
Subject contents Prerequisites	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). Master plan scheduling The order of tasks. Pull and push concepts. Production planning and control in MRP/ERP systems. Balancing production in JiT systems (OPF), heijunka. Kanban system, supermarket. Production planning and control according to the Theory of Constraints, DBR method. production management								
and co-requisites									

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	exam	60.0%	50.0%		
	colloquium	60.0%	25.0%		
	reports	50.0%	25.0%		
Recommended reading	Basic literature	Brzeziński M.: Organizacja i sterowanie produkcją. Placet, Warszawa 2002. Waters D.: Zarządzanie operacyjne. Towary i usługi. PWN, Warszawa 2021. Bozarth C., Handfield R.: Wprowadzenie do zarządzania operacjami I łańcuchem dostaw. Helion 2021.			
	Supplementary literature	Goldratt M. Cox J.: Cel. Doskonałość w produkcji, Mint Books 2008. Pająk E.: Zarządzanie produkcją, PWN 2021. 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: Inżynieria produkcji Nst 2022/2023 - Moodle ID: 23489 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=23489			
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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