

Subject card

Subject name and code	Production Engineering, PG_00044280								
Field of study	Engineering Management								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024			
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			4.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Faculty of Management and Economics								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Jolanta Łopatowska						
	Teachers		dr inż. Jolanta Łopatowska						
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 inclu	uded: 0.0							
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in stud		Participation in consultation hours		Self-study		SUM	
	Number of study hours	60	8.0		32.0		100		
Subject objectives	The aim of the course is to understand the essence of planning and control at every level of operations activity and the acquisition of skills to ensure effective realization of production process.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W12] has a basic knowledge of production management and occupational safety and ergonomics management, as well as information technologies necessary for engineering management		the production planning and			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_W10] has the knowledge of the life cycle of the production system and the product		Identifies the components of the production system. Decomposes production system.			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_U11] can plan and control production and production quality, including the identification and formulation of specifications for simple engineering tasks		Uses the main methods of production planning and control.			[SU4] Assessment of ability to use methods and tools			
Subject contents	Production system and production process. Production system and production process. Actions in production planning and control. Forecasting in demand planning. Production capacity planning. Sales and Operations Planning S&OP. The Master Production Scheduling. Tasks scheduling. Push and pull conceptions. Planning and control in MRP/ERP, APS, MES systems. Production balancing in JiT systems (OPF), heijunka. kanban,, supermarket, CONWIP system. Production control according to the Theory of Constraints, DBR method.								
Prerequisites and co-requisites	production managem	ent							

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	reports	60.0%	25.0%			
	exam	60.0%	50.0%			
	colloquim	60.0%	25.0%			
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	Goldratt, M. Cox, J. (2008). 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, Balle, F., Balle, M. (2013). Kopalnia złota, Wrocław: Lean Enterprise Institute.				
	eResources addresses	Adresy na platformie eNauczanie:				
		Inżynieria produkcji stac. 2023/2024 - Moodle ID: 35934 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=35934				
Example issues/ example questions/ tasks being completed	Methods for construction of Sales and Operations Plans (S&OP)					
	Characteristics of kanban system.					
Work placement	Not applicable					

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