

Subject card

Subject name and code	Production Management, PG_00040564							
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	st-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		blended-learning			
Year of study	2		Language of instruction		Polish			
Semester of study	3		ECTS credits		4.0			
Learning profile	general academic profile		Assessme	sment form		exam		
Conducting unit	Faculty of Management and Economics							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Joanna Czerska					
	Teachers		dr inż. Joanna Czerska					
		mgr Anna Wendt						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	Project Seminar		SUM
	Number of study hours	30.0	0.0	0.0	15.0		0.0	45
	E-learning hours included: 30.0							
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	45		7.0		48.0		100
Subject objectives	The goal of the cours production and service systems.	se is obtain by t ces. It gives the	he students kr students skills	nowledge abou s in creation op	t contemeration :	nporary strategy	operation sy and design	stems of operation

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Learning outcomes	Course outcome	Subject outcome	Method of verification			
	[K6_K02] identifies problems related to undertaking various tasks, including engineering in the changing conditions of the organisation's functioning; takes into account the ethical aspect related to the implementation of the organisation's tasks	The student working in team projects is able to make decisions taking into account the needs of the members of this team in the face of the set goals and challenges that the team faces.	[SK1] Assessment of group work skills			
	[K6_W08] has a basic knowledge of the changes taking place in the organisation and its environment, taking into account environmental problems	Knows the current trends in production management. Can make decisions based on operational indicators. Knows the requirements for the management of waste and hazardous substances	[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	The student is able to choose the method of controlling the flow of customer orders to the specificity of these orders. The student understands how the lack of quality affects the losses on production efficiency and is able to assess this impact	[SU5] Assessment of ability to present the results of task			
	[K6_W02] has a basic knowledge of the different types of departments in the organisation, with particular emphasis on structures of an engineering nature	Student defines and explains contemporary operation systems of production and services. Creates operation strategy. Apples fundamental methods and tools of design operation systems.	[SW1] Assessment of factual knowledge			
	[K6_W12] has a basic knowledge of production management and occupational safety and ergonomics management, as well as information technologies necessary for engineering management	Knows the Goals and Measures of Operations. Productivity. Operation Processes. Process Layout Planning. Process Reegineering and Improvement. Process Management.	[SW1] Assessment of factual knowledge			
Subject contents						
	 Basic concepts related to production management Production management concepts Current trends in the management of production processes Ways of organizing production processes (design to order, make to order, make to stock, assembly to order) Operational indicators (KPIs) in production management. Production efficiency management (performance indicators at various levels of management, decisions made based on these indicators) Basics of maintenance management. Total Productive Maintenance Basics of maintenance management. Predictive support. Basics of maintenance management. Preventive maintenance. Basics of maintenance management. Autonomous operation. Managing production flexibility. Introduction Managing production flexibility. Influence of production flexibility on order fulfillment time. Managing production flexibility. Influence of production flexibility on order fulfillment time. Managing production flexibility. Influence of production flexibility on order fulfillment time. Managing production flexibility. Influence of production flexibility on order fulfillment time. Employee competency management. Competency matrices Employee competency management. Methods of assessing the complexity of competences Employee competency management. Planning the employee development path Employee competency management. Classification of work at the workplace Employee competency management. Classification of work at the workplace Employee competency management. Do classification and levels of competences Managing employee competencies. Verification of employee knowledge and skills Standardization of work. Principles of building labor standards On-the-job training. Instructional methods On-the-job trainin					
Prerequisites	Simulation game Production management					
and co-requisites						

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Quizzes and workbook	60.0%	20.0%		
	Exam	60.0%	20.0%		
	Project	60.0%	60.0%		
Recommended reading	Basic literature	Goldratt E., Cox J.: Cel 1. Doskonałość w produkcji., Mint Books, 2008 Liker J.K.: Droga Toyoty. 14 zasad zarządzania wiodącej firmy produkcyjnej świata, MT Biznes, 2016			
	Supplementary literature	Parmenrer D. Kluczowe wskaźniki efektywności (KPI). Tworzenie, wdrażania i stosowanie. Wyd 3, One press, 2016 Adresy na platformie eNauczanie: ZARZĄDZANIE PRODUKCJĄ 2023/2024 - Moodle ID: 27850 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27850			
	eResources addresses				
Example issues/ example questions/ tasks being completed	Designing a product according to customer requirements, designing the manufacturing process, managing the results of the production process;				
Work placement	Not applicable				

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