

Subject card

Subject name and code	PRODUCTION AND QUALITY MANAGEMENT, PG_00061101								
Field of study	Management								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
Education level	second-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	1		Language of instruction			English			
Semester of study	1		ECTS credits			5.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Katedra Inżynierii Zarządzania i Jakości -> Faculty of Management and Economics								
Name and surname	Subject supervisor		dr inż. Ewa Marjańska						
of lecturer (lecturers)	Teachers		dr inż. Ewa Marjańska						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	30.0	30.0	0.0	0.0		0.0	60	
	E-learning hours included: 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	60		10.0		55.0		125	
Subject objectives	Explains the rules for the implementation of production processes in the context of ensuring their efficiency and quality								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_W01] identifies in-depth the phenomena related to the field of study and the theories describing them and possible analytical methods		correctly identifies production management processes, taking into account the context of quality assurance, selecting the appropriate management concept			[SW1] Assessment of factual knowledge			
	[K7_U02] presents logical and solid arguments about the obtained results, by analyzing and synthesizing information in various business contexts, approaching their interpretation critically		critically evaluates the results of process analysis by synthesizing information from various contexts of their functioning			[SU2] Assessment of ability to analyse information			

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Subject contents	Production management Introduction to production management Historical view. Trends Operational strategy as a competitive tool Objectives and measures of operational activities. Productivity The structure of the production system. Structure, types and forms of organization of production Methodology of designing production systems Organization of the production process Continuous improvement and reengineering of processes Production planning and control Demand forecasting Coordination of demand and production Supplies management Material Requirements Planning (MRP) method Changing the principles of production management in the conditions of using information technology: MRP II, CIM and BPR The concept of JIT and Lean Manufacturing Kanban flow control system Human resource management in production systems Quality management LECTURE Quality definitions Development of quality management Quality definitions Development of quality management Quality determinants and their level of importance CSI and ESI index; OFD method and quality house Tools of the classic seven of quality New quality seven tools Normalization on the example of ISO 9000 ISO 14000 Environmental Management System; ISO 18000; HACCP and ISO 22000 Quality management concepts by E. Deming, J. Juran, Ph. Crosby Models of Excellence Quality costs TUTORIAL Identification of features of products and services Calculation of the level of customer and employee satisfaction using the CSI and ESI indexes Quality cottos of the elassic seven of quality The use of tools of the new quality seven Group problem solving methods Creating a quality policy Quality documents in standardization Environmental policy Statistical methods in quality Control cards Calculation of the Cp and Cpk indices						
Prerequisites	Calculation of quality costs						
and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Written exam	60.0%	50.0%				
	Project	80.0%	50.0%				
Recommended reading	Basic literature	Waters D.: Zarządzanie operacyjne. PWN, 2001 Durlik I.: Inżynieria zarządzania. Strategia i projektowanie systemów produkcyjnych, część I i II, Placet, Warszawa 1995 i 1996 Dahlgaard J., Kristensen K., Kanji G., Podstawy zarządzania jakością, Wyd. PWN, Warszawa 2002 Lock D., Podręcznik zarządzania jakością, Wyd. PWN, Warszawa 2002 Łuczak J., Matuszak- Flejszman A., Metody i techniki zarządzania jakościa. Kompendium wiedzy Wyd. Quality Progress Poznań 2007					
	Supplementary literature	Jasiński Z.: Podstawy zarządzania operacyjnego, Oficyna Ekonomiczna, Kraków, 2005 Muhlemann A.P., Oakland J.S., Lockyer K.G.: Zarządzanie. Produkcja i usługi. PWN Warszawa 1995 Krajewski L.J., Ritzman L.P.: Operations Management: Strategy and Analysis. 4th Edidion, Addison-Wesley Publishing Company, 1996 Hamrol A., Zarządzanie jakością z przykładami, Wyd PWN, Warszawa 2005; Urbaniak M., Zarządzanie jakością. Teoria i praktyka, Wyd. Difin, Warszawa 2005					
	eResources addresses Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Operational strategy as a competitive tool Prioritize competing in quality, productivity and time The main objectives and criteria for evaluating enterprises Structure, types and forms of organization of production Organization of the production proces Continuous improvement and reengineering of processes Coordination of demand and production						

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Work placement	Not applicable

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