

Subject card

Subject name and code	PRODUCTION QUALITY MANAGEMENT, PG_00061040								
Field of study	Management								
Date of commencement of studies	February 2024		Academic year of realisation of subject			2023/2024			
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	Part-time studies (on-line)		Mode of delivery			blended-learning			
Year of study	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			6.0			
Learning profile	general academic profile		Assessmer	ment form			exam		
Conducting unit	Katedra Inżynierii Zarządzania i Jakości -> Faculty of Management and Economics								
Name and surname	Subject supervisor		dr inż. Grzegorz Zieliński						
of lecturer (lecturers)	Teachers		dr inż. Grzegorz Zieliński						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	16.0	24.0	0.0	0.0		0.0	40	
	E-learning hours included: 30.0								
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	40		4.0		106.0		150	
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_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			
	[K7_W01] identifies in-depth the phenomena related to the studied field and the theories describing them as well as possible concepts and methods of management		correctly identifies production management processes, taking into account the context of quality assurance, selecting the appropriate management concept			[SW1] Assessment of factual knowledge			

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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 LECTURE Quality definitions Development of quality management Quality definitions Development of quality management Quality of products and services Quality definitions Development of 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 cottage construction Use of cause and effect tools 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 Deming's quality theses; Juran and Crosby Excellence Deming's quality theses; Juran and Crosby Excellence					
Prerequisites and co-requisites	Calculation of quality costs					
		1				
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Exam	60.0%	50.0%			
	Project	60.0%	50.0%			
Durlik I.: Inżynieria zarzą produkcyjnych, część I i I Dahlgaard J., Kristensen Wyd. PWN, Warszawa 20 Lock D., Podręcznik zarz Łuczak J., Matuszak-Fle		produkcyjnych, część I i II, Placet, V Dahlgaard J., Kristensen K., Kanji (Wyd. PWN, Warszawa 2002 Lock D., Podręcznik zarządzania ja Łuczak J., Matuszak- Flejszman A.	ądzania. Strategia i projektowanie systemów II, Placet, Warszawa 1995 i 1996 n K., Kanji G., Podstawy zarządzania jakością,			
	Supplementary literature eResources addresses	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				
		Zarządzanie Jakością Produkcji sem letni 2023/2024 - Moodle ID: 35990 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=35990				

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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
Work placement	Not applicable

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