

Subject card

Subject name and code	OPERATIONAL MANAGEMENT, PG_00067730								
Field of study	Management								
Date of commencement of studies	February 2026		Academic year of realisation of subject			2025/2026			
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			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			6.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department Of Management Engineering And Quality -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor								
of lecturer (lecturers)	Teachers								
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 inclu	ided: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan			Self-study		SUM		
	Number of study hours	40	3.0		107.0		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_W01] "demonstrates in-depth knowledge and understanding of contemporary management problems, and selects methods for resolving them while taking into account the complex interrelationships among the phenomena being analyzed.		has in-depth knowledge of contemporary operational management issues and understands the interdependencies between processes, resources, and the organizational environment			[SW1] Assessment of factual knowledge			
	[K7_U02] presents lowell-founded argume obtained results through analysis and synthes information in various contexts, critically evinterpretation.				[SU5] Assessment of ability to present the results of task				

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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 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 Examples of quality determinants in products and services Examples of quality determinants in 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 the tools of the classic 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 Deming's quality theses; Juran and Crosby Excellence Model Criteria						
Prerequisites	Calculation of quality costs						
and co-requisites		T					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Exam	60.0%	50.0%				
Recommended reading	Project 60.0% 50.0%						
	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						

Work placement	Not applicable

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