



Subject card

Subject name and code	PRODUCTION QUALITY MANAGEMENT, PG_00063743						
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			blended-learning		
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 -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor	dr Anna Zielińska					
	Teachers	dr Anna Zielińska mgr inż. Daria Stefańska					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	45.0	0.0	0.0	0.0	75
	E-learning hours included: 45.0						
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	75	5.0		70.0	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		

Subject contents	<p>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</p> <p>Quality management LECTURE Quality definitions Development of quality management Quality of products and services Quality determinants and their level of importance CSI and ESI index; QFD 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 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 Calculation of quality costs</p>											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 1370 794 1395">Subject passing criteria</th> <th data-bbox="801 1370 1139 1395">Passing threshold</th> <th data-bbox="1145 1370 1482 1395">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 1404 794 1429">Project</td> <td data-bbox="801 1404 1139 1429">60.0%</td> <td data-bbox="1145 1404 1482 1429">50.0%</td> </tr> <tr> <td data-bbox="456 1438 794 1462">Exam</td> <td data-bbox="801 1438 1139 1462">60.0%</td> <td data-bbox="1145 1438 1482 1462">50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Project	60.0%	50.0%	Exam	60.0%	50.0%
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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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