GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	QUALITY MANAGEMENT, PG_00071723		
Field of study	Management		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2028/2029
Education level	first-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	3	Language of instruction	English
Semester of study	5	ECTS credits	4.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Faculty of Management and Economics -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Piotr Grudowski	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	15.0	0.0	0.0	0.0	45

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	45	3.0	52.0	100

Subject objectives

To prepare students to analyse, design and improve quality management solutions within organisations by developing their ability to apply quality management concepts, methods and tools, based on knowledge of quality systems, standards and process thinking, whilst taking into account economic, organisational and social factors.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W04] possesses advanced knowledge of the principles of creative and entrepreneurial activity, enabling the identification and implementation of innovative ideas while ensuring compliance with copyright protection requirements.	Knows and understands the principles, concepts and standards of quality management, including process thinking and the role of quality systems in the functioning of an organisation.	[SW1] Assessment of factual knowledge
[K6_K02] is prepared to make competent and ethical decisions to create and maintain economic, social, and environmental values, demonstrating entrepreneurial actions.	is ready to make responsible and ethical decisions in quality management, considering their impact on organizational performance as well as social and environmental aspects, and shows initiative in improving processes and management systems.	[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice
[K6_U05] designs innovative solutions for complex management processes by utilizing appropriate methods and techniques.	Is able to analyse quality-related issues in organisational processes and design improvement solutions, using selected quality management methods and tools, whilst taking into account economic and organisational constraints.	[SU4] Assessment of ability to use methods and tools

<table>
<tr><td>Subject contents</td><td>Course content – lecture
Quality - its definitions and aspects
Other basic terms related to quality management
TQM as the basis for management systems
Models of excellence as the a self-assessment tool
Legal aspects of product quality QMS according to ISO 9001. Structure. Requirements
Process orientation in management systems
Basic tools of process assessment and improvement
Costs of quality
Other normative management systems (environment, OHS, ...)
Integration of management systems

Course content – exercises
Quality - its definitions and aspects
Other basic terms related to quality management
TQM as the basis for management systems
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Process orientation in management systems
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Costs of quality
Other normative management systems (environment, OHS, ...)
Integration of management systems</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Team project</td><td>60.0%</td><td>50.0%</td></tr>
<tr><td>Exam with open-ended questions</td><td>60.0%</td><td>25.0%</td></tr>
<tr><td>Knowledge-based presentation</td><td>60.0%</td><td>25.0%</td></tr>
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</td></tr>
<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>Beckford John, Quality Management: Reconsidered for the Digital Economy, Taylor & Francis, 2022
Deming E.W.: Out of the crisis. Cambridge: Massachusetts Institute of Technology 1982</td></tr>
<tr><td>Supplementary literature</td><td>Blokdyk Gerardus Quality Management a Complete Guide - 2019 Edition, Emereo Pty Limited, 2018
Defeo, J.A. and Juran, J.M., Juran's Quality Handbook: The Complete Guide to Performance Excellence, McGraw-Hill Education, 2010</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>1. Basic principles of TQM

2. Structure and requirements of normative management systems

3. Developments in QM</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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