



Subject card

Subject name and code	Quality Management in Transport, PG_00060661						
Field of study	Transport and Logistics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
Education level	first-cycle studies		Subject group		Optional subject group 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		Polish		
Semester of study	5		ECTS credits		5.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Division Of Marine Structural Engineering -> Institute Of Naval Architecture -> Faculty Of Mechanical Engineering And Ship Technology -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Anna Dembicka				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	30.0	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		5.0		60.0	125
Subject objectives	Learning the principles, methods and tools of quality management						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K02] is able to work in a team playing various roles;is able to act in a rational and ethical way		The student is able to cooperate in a team, acting ethically and rationally.		[SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK1] Assessment of group work skills		
	[K6_W08] has knowledge of the principles of sustainable development		He acquired knowledge about the implementation of sustainable development goals.		[SW2] Assessment of knowledge contained in presentation		
	[K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems		The student acquires knowledge about basic forms of entrepreneurship, including quality management. He is able to solve problems of a social, legal and economic nature.		[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information		
Subject contents	LECTURE: Definition of quality. Development of quality management. Principles and methods of quality management: Lean concept, Kaizen concept, 5W2H, 5S, JiT, Poka Yoke, QFD method (quality function development), Kano model, Taguchi method. Quality management tools (Ishikawa diagram, relationship diagram, Pareto diagram). ISO 9001 standard. ISO 9001:2015 Management system standards Quality documentation - structure of Quality Management System documentation (Quality Policy, Quality Objectives, Quality Manual, Procedures/Instructions, Quality Records). Model of the Quality Management System. Planning, design and implementation of QMS. Audit as a tool for improving the QMS. Process management and quality (process management in the concepts of the classics of quality management, process approach and TQM, processes in the ISO 9001 standard, process management in modern management concepts). Integrated management systems. Quality costs. PROJECT: Implementation of the project consisting of: development of the Quality Policy, Quality Objectives, Organizational Chart, Diagram of connections between processes, Process Card, System Quality Book, Procedures, Instructions, Forms, Project presentation.						

Prerequisites and co-requisites	Knowledge about business management		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	lecture - test	60.0%	50.0%
	project	60.0%	50.0%
Recommended reading	Basic literature	A. Hamrol, Zarządzanie i inżynieria jakości, PWN, Warszawa 2017. M. Urbaniak, Zarządzanie jakością. Teoria i praktyka, Difin, Warszawa 2004. D. Zimon, Zarządzanie jakością w logistyce, CeDeWu, Warszawa 2023. J. M. Myszewski, Jakość kosztuje, Poltext, Warszawa 2021.	
	Supplementary literature	Indicated by the lecturer on an ongoing basis	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Norma ISO 9000:2015 Systemy Zarządzania Jakością Podstawy i terminologia Norma ISO 9001:2015 Systemy Zarządzania Jakością Wymagania Norma ISO 9004:2009 - Systemy Zarządzania Jakością Zarządzanie ukierunkowane na trwały sukces organizacji Norma ISO 19011:2018 Wytyczne dotyczące audytowania systemów zarządzania		
Work placement	Not applicable		

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