GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Quality Assurance in Building Construction, PG_00041434		
Field of study	Civil Engineering		
Date of commencement of studies	February 2025	Academic year of realisation of subject	2025/2026
Education level	second-cycle studies	Subject group	Optional subject group
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Building Engineering -> Faculty of Civil and Environmental Engineering		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Dariusz Kowalski	
	Teachers		

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	0.0	30.0	30

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	30	5.0	40.0	75

Subject objectives

Understand the nature of quality management systems in the organization and management of project quality, in relation to the construction companies

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_K01] is aware of necessity of professional competences improvement; obeys the professional ethics code	The student prepares a thematic study related to the topic of classes, which will be the subject of presentation and discussion.	[SK4] Assessment of communication skills, including language correctness
[K7_W05] has knowledge about business activity specific for construction sector; understands principles of financial economy of companies, knows rules of defining quality management procedures in a construction company; has knowledge about optimisation of building enterprises and existing risk and uncertainty	1. The student has knowledge of quality assurance systems in various production and manufacturing models in the production sector and the production of building materials as on construction sites. 2. The student knows the impact of quality costs on the financial costs of the business activity of the enterprise.	[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects
[K7_U15] has advanced skills in civil engineering within offered specialization/profile	The student can develop a plan of activities related to the preparation of pro-quality procedures for a construction company and a specific construction site	[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools

Subject contents

Initial issues. Basic definitions. The essence of quality management. The variety of definitions and perceptions of quality. The objectives and the importance of quality in contemporary organizations. The evolution of the concept of quality management. Classics of the concept of quality management in organizations: W.E.Deming, / 14 rules, the wheel PDCA / J.Juran, P.B.Crosby, K.Ishikawa. The diversity of modern concepts of quality management in organizations. Basic assumptions. Quality management using the applicable quality standards. Standards Series: 9000, 14000 and 18000 others. Standards of business ethics Non-standard quality management. Methods and tools used in quality management, classification, types. Quality management systems in construction companies. Project quality management. Quality plans

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
task seminar	60.0%	100.0%

Recommended reading	Basic literature	1. Hamrol A.:Zarządzanie jakością z przykładami. WN PWN Warszawa 2013 2. Zymoniuk Z., Hamrol A., Grudowski.: Zarządzanie jakością i bezpieczeństwem. PWE Warszawa 2013 3. Wolniak R., Skotnicka Zasadzień B.: Zarządzanie jakością dla inżynierów. Wydawnictwo PŚ Gliwice 2010 4. Normy, ustawy, standardy.
	Supplementary literature	1. Harmol A: Mantura.:Zarządzanie jakością, teoria i praktyka. WN PWN. Warszawa 2. Wawak S.: Zarządzanie jakością. Teoria i praktyka. Wydawnictwo Helion Gliwice. 3. Trocki M.: Nowoczesne zarządzanie projektami. PWE Warszawa 2012.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	1. The classic concepts of quality management. 2. Total Quality Management. 3. Management quality of the project.	
Work placement	Not applicable	

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