



Subject card

Subject name and code	Quality Assurance in Building Construction, PG_00041434						
Field of study	Civil Engineering						
Date of commencement of studies	February 2023	Academic year of realisation of subject			2023/2024		
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. Magdalena Pawelska-Mazur				
	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_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		
	[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_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		
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	<ol style="list-style-type: none"> 1. Hamrol A.: Zarządzanie jakością z przykładami. WN PWN Warszawa 2013 2. Zymoniuł 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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. The classic concepts of quality management. 2. Total Quality Management. 3. Management quality of the project. 	
Work placement	Not applicable	