GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Construction management, PG_00042225		
Field of study	Construction management		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2025/2026
Education level	second-cycle studies	Subject group	Obligatory subject group in the field of study Humanistic-social 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	1	Language of instruction	English
Semester of study	1	ECTS credits	6.0
Learning profile		Assessment form	none
Conducting unit	Department of Concrete Structures -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Magdalena Pawelska-Mazur	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	15.0	0.0	15.0	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	85.0	150

Subject objectives

The student becomes familiar with the issues of managing the construction process.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U05] can formulate and perform basic research on engineering, technological or organisational problems in civil engineering	The student is able to choose various technological and logistic solutions in a construction project.	[SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu
[K7_K05] can manage a team in a responsible way, regarding the rules of occupational safety and health	The student is able to analyze the risk and financial flows in the construction process.	[SK5] Ocena umiejętności rozwiązywania problemów występujących w praktyce
[K7_K03] can think and act creatively and enterprisingly and works for society	The student presents knowledge of the offer and construction contracts.	[SK5] Ocena umiejętności rozwiązywania problemów występujących w praktyce
[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	The student presents knowledge of the offer and construction contracts.	[SW1] Ocena wiedzy faktograficznej
[K7_U13] can plan an optimal schedule of construction works, is able to use software for constriction works planning; applies rules of management according to FIDIC; makes quality and marketing plan; make cost estimates of engineering (and special) works, taking into account the specific technologies	The student presents the basic knowledge and ability to use MS Project.	[SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu
[K7_U07] is able to design elements of road network, to apply the rules of traffic organisation and control, taking into account economy, safety and environmental factors,	The student is able to choose various technological and logistic solutions in a construction project. The student is able to analyze the risk and financial flows in the construction process. The student presents knowledge of the offer and construction contracts.	[SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu

Subject contents

Course content – lecture
Managing the design process. Offering and construction contracts. construction site development. Risk analysis in construction. Planning techniques for construction projects. Construction schedule analysis. Quality management and health and safety at the construction site. Financial flows in a construction project. PS Projekt as a construction planning tool.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
exam	60.0%	75.0%
project	60.0%	25.0%

Recommended reading

Basic literature	Modern Construction Management by Frank Harris, Construction Planning, Programming... by Brian Cooke, Peter Williams Construction Management in Practice by Richard F. Fellows
Supplementary literature	http://www.construction-project-management.net http://pmbook.ce.cmu.edu/
eResources addresses	

Example issues/ example questions/ tasks being completed

Cash flow analysis.

Practical activites within the subject

Not applicable

Document generated electronically. Does not require a seal or signature.