



Subject card

Subject name and code	Construction management, PG_00042225						
Field of study	Civil Engineering						
Date of commencement of studies	February 2024	Academic year of realisation of subject			2023/2024		
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	general academic profile	Assessment form			exam		
Conducting unit	Department of Concrete Structures -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Magdalena Pawelska-Mazur				
	Teachers		dr inż. Magdalena Apollo				
Lesson types and methods of instruction	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	Student recognises the knowledge in construction management field.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_U13] can plan an optimal schedule of construction works, is able to use software for construction 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 is able to analyze the risk and financial flows in the construction process.	[SU3] Assessment of ability to use knowledge gained from the subject
	[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 presents knowledge of the offer and construction contracts.	[SU3] Assessment of ability to use knowledge gained from the subject
	[K7_K03] can think and act creatively and enterprisingly and works for society	The student presents the basic knowledge and ability to use MS Project.	[SK5] Assessment of ability to solve problems that arise in practice
	[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] Assessment of ability to use knowledge gained from the subject
	[K7_K05] can manage a team in a responsible way, regarding the rules of occupational safety and health	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.	[SK5] Assessment of ability to solve problems that arise in practice
[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] Assessment of factual knowledge	
Subject contents	Research of the best management solutions at the construction projects. Tenders and contracts in construction. Site planning. Risk allocation analysis for construction. Planning techniques. Time schedule analysis. Safety and quality management at the building site. Cash flow at the construction project. MS Project as the planning tool.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	MS project	60.0%	20.0%
	exam	60.0%	80.0%
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	Adresy na platformie eNauczenie:	

Example issues/ example questions/ tasks being completed	Cash-flow analysis.
Work placement	Not applicable

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