



Subject card

Subject name and code	HISTORY OF BRIDGE STRUCTURES DEVELOPMENT, PG_00041248						
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	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			1.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Railway Engineering -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Krzysztof Żółtowski				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		5.0		5.0	25
Subject objectives	The aim of the course is to familiarize students with the history of the development of bridge construction, paying special attention to building materials and construction methods.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_W02] knows principles of analysis, design and dimensioning of complex constructions and its elements		Use of knowledge of basic theories and construction methods in understanding the success of historical bridge structures		[SW1] Assessment of factual knowledge		
	[K7_K04] understands the necessity of dissemination civil engineering knowledge in the society and to support the professional ethos of a civil engineer		Knowledge about development of historical bridge construction. Ideas, materials, structures.		[SK5] Assessment of ability to solve problems that arise in practice		
Subject contents	Overview through historic bridge structures. Antiquity, Greece, Rome. Brick structures and wooden and concrete. Middle Ages, brick and wooden structures. Technical revolution, steel, concrete, suspension bridges and trusses, prestressed structures.						
Prerequisites and co-requisites	Knowledge of building materials, the basics of statics and strength of materials						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	written exam		60.0%		100.0%		
Recommended reading	Basic literature		David J. Brown. Bridget. Tree thousand years of defying nature				
			Judith Dupre. Bridges. A history of the world's famous and important spans				
	Supplementary literature		Jan Biliszczyk. Bridges in the history of Poland. A. Rosset. Ancient roads and bridges				
	eResources addresses		Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Mosty kamienne, murowane, stalowe, metalowe, drewniane/ Stone, brick, cast steel, metal and wooden bridges						
Work placement	Not applicable						

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