

Subject card

Subject name and code	HISTORY OF BRIDGE STRUCTURES DEVELOPMENT, PG_00041248							
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	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		dr hab. inż. Krzysztof Żółtowski					
Lesson types and methods of instruction	Lesson type Lecture		Tutorial Laboratory Project		t	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 classes include plan		Participation i consultation h		Self-study		SUM
	Number of study hours	-		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					[SW1] Assessment of factual knowledge		
	[K7_K04] understands the necessity of dissemination civil engineering knowlege in the society and to suport the proffesional 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 andwooden 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	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	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`is famous and important spans					
	Supplementary literature		Jan Biliszczuk. Bridges in the history of PolandA. Rosset. Ancient roads and bridges					
	eResources addresse	Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Mosty kamienne, murowane, staliwne, metalowe, drewniane/ Stone, brick, cast steel, metal and wooden bridges							
Work placement	Not applicable							

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