

Subject card

Outline at management and a series	PC 00062234								
Subject name and code	, PG_00062234								
Field of study	Civil Engineering								
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/	2024/2025		
Education level	second-cycle studies		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			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Engineering Structures -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor	dr inż. Arkadiusz Sitarski							
of lecturer (lecturers)	Teachers	dr inż. Arkadiusz Sitarski							
		dr hab. inż. Marcin Abramski							
		dr hab. inż. Krzysztof Żółtowski							
			mgr inż. Maciej Malinowski						
			dr inż. Anna Banaś						
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Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	30.0	15.0	0.0	0.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation is classes included plan Number of study hours Participation is classes included plan 45				Self-study		SUM		
				0.0		0.0		45	
Subject objectives	learning techniques and technology of building bridges								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K7_W13] has knowledge on state of the art methods on knowledge acquisition, filtration, processing and analysis		knows the programs for computer model analysis, including analysis of bridge construction conditions.			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation			
	[K7_U06] is able to choose proper tools (measuring, analytical or numerical) to solve engineering problems, to acquire, filtrate, proces and analyse data		the type of bridge structure and will analyze the possibilities of its			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject			
Subject contents	Contemporary methods of concrete bridges erection. Classification of constructing technology, choice criteria. Precasting. Scaffolding and shuttering construction. System scaffolding. Steel bridges. Classification by materials, construction type (cross- sections). Choice of static scheme, choice criteria. Technical and economical characteristics of construction methods. Methods of bridge structures fabrication. Laying out, cutting, welding of large size elements. Assembly methods (traditional and large-size). Possibilities and choice criteria. Bridge equipment and its influence on structure durability.								
Prerequisites and co-requisites	Subject: Bridges and Tunnels								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Project tutorials		60.0%			50.0%			
	Midterm colloquium		60.0%			50.0%			

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Recommended reading	Basic literature	1. Głomb J.: Technologia budowy mostów betonowych. WKiŁ, Warszawa 1982. 2. Madaj A., Wołowicki W.: Budowa i utrzymanie mostów. WKiŁ, Warszawa 1995. 3. Leonhardt F.: Budowa mostów. WKiŁ, Warszawa 1982			
	Supplementary literature	1. Praca zbiorowa: Zagadnienia budowy współczesnych mostów betonowych. Biblioteka Drogownictwa, WKiŁ, Warszawa 1982 2. Praca zbiorowa: Podpory mostów. Wybrane zagadnienia. Biblioteka Drogownictwa, WKiŁ, Warszawa 1981 3. Ryżyński A., Wołowicki W., Skarżewski J., Karlikowski J.: Mosty Stalowe. PWN, Warszawa-Poznań 1984. 4. Danielski L.: Most Metalowe. Politechnika Wrocławska. Wrocław 1983. 5. Wolff M.: Rusztowania i deskowania mostowe. WKiŁ, Warszawa 1964. 6. Barzykowski W., Derecki J., Feder A., Janczewski L., Jarominiak A., Pierożyński M.: Mechanizacja Budowy Mostów. WKiŁ, Warszawa 1971. 7. Kędzierski B.: Postęp techniczny w mostownictwie. WKiŁ, Warszawa 1972 8. Langrock J., Schuchardt J., Verch W.: Betonbrückenbau. VEB Verlag für Bauwesen, Berlin 1979			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	 Technologies for building small bridges Technologies for building continuous concrete bridges. Analysis of the assembly phase of selected bridge structure 				
Work placement	Not applicable				

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