



Subject card

Subject name and code	Special Concretes, PG_00040233						
Field of study	Civil Engineering						
Date of commencement of studies	February 2024		Academic year of realisation of subject		2024/2025		
Education level	second-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Mechanics of Materials and Structures -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Marzena Kurpińska				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	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 in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	45		0.0		0.0	45
Subject objectives	Supplementing messages purchased during the basic concerning course is a purpose of the object of technology of concrete. Acquaintance of cement materials of a new generation and unconventional methods or conditions of arranging and the care. Practical knowledge of methods of testing the properties of special concretes. Deepening acquaintances of new standard nudes concerning cement concrete.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_U15] has advanced skills in civil engineering within offered specialization/profile		The student is able to: - design a concrete composition with special requirements, - use knowledge of techniques concreting and transport, - verify the quality of concrete using an appropriate test method.		[SU3] Assessment of ability to use knowledge gained from the subject		
	[K7_W15] has deep and adequate knowlege of civil engineering, within offered specialization and profile		The student knows modern concreting techniques and the possibilities of modifying the properties of concrete. The student defines the material, technological and environmental conditions of concrete durability.		[SW1] Assessment of factual knowledge		
Subject contents	Concreting methods classification. Material, technological and environmental requirements for the durability of concrete. The classification of the equipment to production, transport, laying and thickening of the concrete mix. Concrete forming. Design and execution requirements for selected special concretes: lightweight concretes, architectural concretes, SCC concretes, high-strength concretes, fibro-concrete. Pomp concrete and shotcrete. Concreting in low and high temperatures.						
Prerequisites and co-requisites	Knowledge of the underlying technology of concrete and concrete techniques .						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Semester dissertation		100.0%		100.0%		
Recommended reading	Basic literature		1. Neville A. M. 'Properties of Concrete'				
	Supplementary literature		1. Collepardi M. 'New Concrete'				
	eResources addresses		Adresy na platformie eNauczanie:				

Example issues/ example questions/ tasks being completed	<p>1. Describe the type of light-weight concrete components , requirements for . Quality components , workmanship , features concrete , care.</p> <p>2. Replace procedures when laying concrete under water.</p> <p>3. Identify and describe the types of exposure classes of concrete.</p>
Work placement	Not applicable

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