

## 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 Engine						gineering	
Name and surname	Subject supervisor		dr inż. Marzena Kurpińska					
of lecturer (lecturers)	Teachers							
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 in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	45	0.0			0.0 4		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							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	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	Semester dissertation		100.0%			100.0%		
Recommended reading	Basic literature	Neville A. M. 'Properties of Concrete'						
	Supplementary literature		1. Collepardi M. 'New Concrete'					
	eResources addresse	Adresy na platformie eNauczanie:						

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

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