

## Subject card

Cubicat name and and	Special Concretes PG 00040233								
Subject name and code	Special Concretes, PG_00040233								
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						
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	Katedra Wytrzymałości Materiałów -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor		dr inż. Marzena Kurpińska						
of lecturer (lecturers)	Teachers mgr inż. Lucyna Grabarczyk								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM	
	Number of study hours	30.0	15.0	0.0			0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes including plan			Participation in consultation hours		Self-study SU		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 out	come	Subject outcome Method of verification						
	[K7_W15] has deep and adequate knowlege of civil engineering, within offered specialization and profile					[SW1] Assessment of factual knowledge			
	[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			
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 Semester dissertation		Passing threshold		Percentage of the final grade				
and criteria			100.0%		100.0%				
Recommended reading	Basic literature			1. 'Properties o		ete'			
	Supplementary literat	1. Collepardi M. 'New Concrete'							

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	eResources addresses	Adresy na platformie eNauczanie: Betony Specjalne 2024 - III sem - Moodle ID: 37529 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37529			
Example issues/ example questions/ tasks being completed	Describe the type of light-weight concrete components , requirements for . Quality components , workmanship , features concrete , care.				
	2. Replace procedures when laying concrete under water.				
	3. Identify and describe the types of exposure classes of concrete.				
Work placement	Not applicable				

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