

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	Technology of Concrete Production II, PG_00044309								
Field of study	Civil Engineering								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study Subject group related to scientific			
Mode of study	Part-time studies		Mode of delivery			research in the field of study at the university			
Year of study			· · · · · · · · · · · · · · · · · · ·			Polish	,		
Semester of study	1		Language of instruction ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit					mental	_	erina		
Name and surname	Subject supervisor	<ul> <li>Faculty of Civil and Environmental Engineering</li> <li>dr inż. Marzena Kurpińska</li> </ul>							
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity Participation ir classes includ plan				Self-study SUM		SUM		
	Number of study hours	30	7.0		63.0		100		
Subject objectives	The aim of the course is to acquire knowledge in the field of concrete technology and new information from the basic course on concrete technology.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_U11] is able to plan and execute laboratory experiments to evaluate quality of construction materials and to determine strength of construction elements		He can assess the quality of basic ingredients. He knows the methods of research.			[SU1] Assessment of task fulfilment			
	[K7_U02] can design and dimension complex steel, concrete (including reinforced), wood and masonry construtions and its details		Is able to design the composition of concrete depending on the environment in which the construction will work. He knows the types of concrete. He knows the ways to care for concrete. He knows the standard requirements.			[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task			
	[K7_W01] has knowledge of higher mathematics, physics and chemistry, which is a base of subjects, such as construction theory and advanced material technology		analysis of test results.			[SW3] Assessment of knowledge contained in written work and projects			

and co-requisites         Assessment methods and criteria       Subject passing criteria       Passing threshold       Percentage of the final grade         Lista obecności       60.0%       30.0%         Ocena prezentacji       100.0%       50.0%         Ocena sprawozdania       100.0%       20.0%         Recommended reading       Basic literature       1. Neville A. M., Concrete properties         Supplementary literature       Articles in magazines:         Construction and Building Materials         ACI Materials         ACI Structures         eResources addresses         I. Discuss the properties of binding binders. Compare properties CEM I and CEM III. Explain the designation CEM II /A:S 42.5R, CEM and 42.5R SR3 NA.         2. Describe the properties of mineral and artificial agregates.         3. Discuss the principles of designing self-compacting concrete and HPC         5. Discuss the principles of designing self-compacting concrete and HPC         6. Discuss the characteristics of fresh concrete mix of concretes with special properties         6. Discuss the characteristics of fresh concrete mix of concrete sets with special properties         6. Discuss the characteristics of fresh concrete mix of concrete sets with special properties         6. Discuss the characteristics of fresh concrete mix of concrete sets         7. Discuss methods of destructive and non-destructive testing								
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