

## GDAŃSK UNIVERSITY

## Subject card

Subject name and code	Devices in the Building Industry, PG_00052982								
Field of study	Chemistry in Constru	ction Engineer	ng						
Date of commencement of studies	February 2024		Academic year of realisation of subject			2023/2024			
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Polymers Technology -> Faculty of Chemistry								
Name and surname	Subject supervisor	supervisor		prof. dr hab. inż. Janusz Datta					
of lecturer (lecturers)	Teachers		-						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	30.0		0.0	45	
	E-learning hours inclu	uded: 0.0							
Learning activity and number of study hours	Learning activity	Participation i classes incluc plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	45		15.0	5.0			100	
Subject objectives	Overview of the main elements of construction and principles of operation of selected equipment used in the construction industry								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K7_U12		Knows the method of selection and verification of structural elements of the device for the production of construction chemicals			[SU4] Assessment of ability to use methods and tools			
	K7_K04		Knows the rules of work of equipment for the building industry			[SK2] Assessment of progress of work			
	K7_W05		Ban choose the device for various construction works			[SW3] Assessment of knowledge contained in written work and projects			
	K7_U14		Knows the way of designing a device for the production of construction chemicals			[SU1] Assessment of task fulfilment			
Subject contents	Reactors, dissolvers, equalizers - equipment used in the production of construction chemicals; dosing and mixing units used in the manufacture of flexible raceway; equipment for pressure spray foam insulation; equipment for the production of sandwich panels; earthmoving reinforcement; earthmoving machinery; hydromechanization machines and drainage; rigs								
Prerequisites and co-requisites	Chemistry of building materials and its destiny, Fundamentals of construction equipment of construction industry								
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade				
and criteria	test		50.0%			50.0%			
	project		100.0%		50.0%				
Recommended reading	Basic literature		Otto, Czarnecki L., Broniewski T., Chemia w budownictwie, Wydawnictwo:Wydawnictwo Arkady, wydania:2009 Janicki L, Maszyny i urządzenia budowlane, Wydawnictwa Szkolne i Pedagogiczne, 1987						
	Supplementary literature		Internet pages						
	eResources addresse	Adresy na platformie eNauczanie:							
				zanie:					

example questions/	Describe the method of preparing the reactor used for the production of acrylic paints for operation. Discuss the operation of machines spraying polyurethane foam. What is way of pouring polymer floors on hardened ground with the use of a dosing and mixing unit.
Work placement	Not applicable