

## Subject card

Subject name and code	Devices in the Building Industry , PG_00052982							
Field of study	Chemistry in Construction Engineering							
Date of commencement of studies	February 2023		Academic year of realisation of subject			2022/2023		
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		prof. dr hab. inż. Janusz Datta					
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	<del>-                                    </del>		t	Seminar	SUM
	Number of study hours	15.0	0.0 0.0 30.0			0.0	45	
	E-learning hours inclu	i e	P. I C.	ls		0 15 1	1	0.114
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study 45 nours			15.0		40.0		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_U14		Knows the way of designing a device for the production of construction chemicals			[SU1] Assessment of task fulfilment		
	K7_W05		construction works			[SW3] Assessment of knowledge contained in written work and projects		
	K7_K04		Knows the rules of work of equipment for the building industry			[SK2] Assessment of progress of work		
	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		
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	project		100.0%			50.0%		
	test		50.0%			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 Pedagogiczne, 1987				a Szkolne i	
	Supplementary literature		Internet pages	Internet pages				
	eResources address	Adresy na pla	Adresy na platformie eNauczanie:					
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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

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