

## 关。GDAŃSK UNIVERSITY 多 OF TECHNOLOGY

## Subject card

Subject name and code	Building and Installation Materials, PG_00048438							
Field of study	Chemistry in Construction Engineering							
Date of commencement of studies	, ,		Academic year of realisation of subject			2024/2025		
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
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			4.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Building Structures and Material Engineering -> Faculty of Civil and Environmenta Engineering				ental			
Name and surname	Subject supervisor		dr hab. inż. Michał Wójcik					
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	30.0	0.0		0.0	45
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study SU		SUM
	Number of study hours	45		5.0		50.0		100
Subject objectives	After the Building Materials course the student will be able to: memorize and define the physical and mechanical properties of the building and installation materials and classify them to one of the basic group; explain the processes, which take place in the building materials; interpret and apply the standards concerning the quality and properties of building materials, apply various building materials.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
<b>3</b> • • • • •	K6_U02		The student knows how to work in a group, can analyze the obtained research results.			[SK3] Assessment of ability to organize work [SK1] Assessment of group work skills		
	K6_W05		The student has knowledge of building and installation materials, knows the basic principles of testing the functional properties of materials and has basic knowledge of the use of building materials		[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject			
Subject contents	Technical properties of building materials. Natural stone materials. Ceramic building products. Concrete, lightweight aggregates, cavernous concrete, cellular concrete, foamed concrete. Products based on lime, Portland cement, and gypsum binders. Glass properties and products used in construction industry. Wood and wooden building products. Materials for thermal and sound insulation. Bituminous and plastic materials for damp proofing. Plastic properties, classification, products, usage in construction industry. Painting materials and various finishing. Installation materials.							
Prerequisites and co-requisites	Basic knowledge of physics and chemistry.							
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	Oral test		50.0%		50.0%			
	Written test.		50.0%		50.0%			
Recommended reading	Basic literature	Lack of materials.						

	Supplementary literature	Stefańczyk B., Budownictwo ogólne, tom 1, Warszawa: Arkady 2005.			
		Szymański E., <i>Materiałoznawstwo budowlane z technologią betonu</i> , cz. 1. i 2., Warszawa: Oficyna Wydawnicza Politechniki Warszawskiej, 2005.			
		Żenczykowski W., <i>Budownictwo ogólne</i> , t. 1., Warszawa: Arkady, 1992.			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	Name the construction product, describe production technology and other materials used in its manufacture, specify its basic physical and mechanical properties and give its application in construction.				
Work placement	Not applicable				