

Subject card

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Subject name and code	TECHNIQUES AND CONSTRUCTION TECHNOLOGIES, PG_00044226								
Field of study	Civil Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group			Optional subject group			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	4		Language of instruction			Polish			
Semester of study	7		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Building Structures and Material Engineering -> Faculty of Civil and Environmental Engineering						ental		
Name and surname	Subject supervisor	dr inż. Małgorzata Lachowicz							
of lecturer (lecturers)	Teachers		dr inż. Małgorzata Lachowicz						
		dr hab. inż. Marcin Abramski							
		dr inż. Dariusz Kowalski							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	15.0	0.0	0.0		0.0	30	
	E-learning hours included: 0.0					-			
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM		SUM		
	Number of study 30 hours		5.0		15.0 50				
Subject objectives	Acquainting the student with the existing modern methods of performing construction works.								
Learning outcomes	Course outcome Subject outcome					Method of verification			
	[K6_W12] Has basic knowledge on building physics, including heat and moisture migration in buildings, acoustics and energy demand		The student knows the basics of building physics regarding the migration of heat and moisture in buildings, their acoustics and determining the energy demand of buildings.						
	[K6_W13] Knows the most popular construction materials and basics of technology of its fabrication		The student knows the most commonly used building materials and the basic elements of the technology of their production.						
	[K6_U12] knows rules of manufacturing and application of building materials, is able to properly choose tchem; is able to make simple laboratory experiments for judging quality of building materials		The student knows the principles of production and use and is able to select building materials; is able to perform simple laboratory experiments leading to the assessment of the quality of used building materials.						
	[K6_U08] can calculate the energy balance of a building		The student is able to prepare the energy balance of a building object.						
	[K6_U06] can design steel, concrete (including reinforced), wood and masonry construtions and its elements		The student can design selected elements and typical metal, reinforced concrete, composite, wooden and brick structures.						
Subject contents	New techniques and technologies in construction. Criteria for applying new constructional and material and technological solutions for foundations, walls, ceilings and flat roofs. Removal of defects new technologies.								
Prerequisites and co-requisites	No requirements.								
Assessment methods	Subject passing criteria Passing threshold			Percentage of the final grade					
and criteria	Term work 60.0%			0%			100.0%		
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Recommended reading	Basic literature	Information materials of companies that deal with the development and implementation of new technological and construction-material solutions in general construction.
	Supplementary literature	Not applicable.
	eResources addresses	Adresy na platformie eNauczanie:
		Techniki i technologie budowlane 2023 - Moodle ID: 33553 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33553
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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