



Subject card

Subject name and code	Fundamentals of buildings, PG_00058789						
Field of study	Environmental Engineering						
Date of commencement of studies	October 2022	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	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 Engineering Structures -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Michał Nitka					
	Teachers	dr inż. Maciej Lewandowski-Szewczyk mgr inż. Jakub Schönnagel					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	15.0	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		SUM
	Number of study hours	45	6.0		50.0		101
Subject objectives	The aim of the course "Podstawy Budownictwa" is to acquaint students with basic issues related to general construction: structural work, loads, individual structural elements, construction materials, etc. Additionally, attention is given to design and execution errors as well as the entire course of the construction process. During the exercises, students learn technical drawing (both drawing and reading) and basic structural calculations.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W08] has elementary knowledge of construction: including building materials, their strength, construction mechanics and building physics, moisture migration in buildings, heat transfer through building partitions	The student possesses elementary knowledge in the field of construction, including construction materials, their strength, structural mechanics, and the physics of structures, as well as moisture migration in buildings and heat penetration through building partitions.			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U01] has the ability to self-education, can obtain information from literature, databases and other sources, uses information technology, Internet resources; can integrate the obtained information, make their interpretation, as well as draw conclusions and formulate and justify opinions	The student should acquire the ability for self-education, be able to gather information from literature, databases, and other sources, use information technology and internet resources. They should integrate acquired information, interpret it, draw conclusions, and formulate and justify opinions.			[SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_U06] knows and applies the basic provisions of construction law, water law and environmental law	The student is familiar with and applies the basic regulations of construction law, water law, and environmental protection law.			[SU5] Assessment of ability to present the results of task		
Subject contents	The course is divided into lectures and exercises (design). The lectures are thematically divided into sections: introduction (what will be covered, basic concepts, and divisions), the construction process, construction law, loads acting on the structure, walls and partitions, materials for walls, foundations, roofs, lintels, and general properties of construction materials. Later, students give presentations on assigned topics. The exercises involve creating 3-4 technical drawings (floor plans, ceilings, cross-sections) and 2 static-strength calculations.						

Prerequisites and co-requisites	The student is required to complete AutoCAD drawing classes.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	finished project	50.0%	40.0%
	presentation	50.0%	20.0%
	progress update	50.0%	40.0%
Recommended reading	Basic literature	none	
	Supplementary literature	none	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		