



## Subject card

Subject name and code	, PG_00061761						
Field of study	Environmental Engineering						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	second-cycle studies		Subject group		Obligatory subject group in the field of study		
Mode of study	Part-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Building Engineering -> Faculty of Civil and Environmental Engineering -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Wojciech Migda				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	20.0	0.0	0.0	20
	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	20		3.0		52.0	75
Subject objectives	The aim of the course is to familiarize students with the possibilities of designing in the BIM (Building Information Modeling) environment.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K7_U06		Is able to design and analyze the project.		[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task		
	[K7_U01] can obtain information from literature, databases and other sources; can integrate the obtained information, interpret and critically evaluate them, draw conclusions, and formulate and comprehesively justify the opinions		Is able to present and evaluate the course and effects of work in a team implementing an advanced engineering project. Is able to use technical documentation and create it independently, formulates conclusions and describes the results of his own work.		[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information		
	K7_W05		Understands the importance of responsibility in engineering activities, including the reliability of presented results of one's work and their interpretation.		[SW3] Assessment of knowledge contained in written work and projects		
Subject contents	Introduction to BIM technology. BIM models, basic concepts: LOD, LOI, BIM nD. Teamwork, file sharing, data processing.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Project		60.0%		60.0%		
	Project presentation		60.0%		40.0%		
Recommended reading	Basic literature		Anger A., Łaguna P., Zamara B.: BIM dla managerow, PWN, 2021  Tomana A.: BIM Innowacyjna technologia w budownictwie. Podstawy, standardy, narzedzia, PWB MEDIA, Warszawa, 2016				

	Supplementary literature	Kasznia D., Magiera J., Wierzowiecki P. BIM w praktyce. Standardy. Wdrożenie. Case Study. PWN Warszawa, 2018.
	eResources addresses	
Example issues/ example questions/ tasks being completed	Design of a multi-family building.	
Work placement	Not applicable	

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