



Subject card

Subject name and code	, PG_00060055						
Field of study	Environmental Engineering						
Date of commencement of studies	February 2025	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	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Building Engineering -> Faculty of Civil and Environmental Engineering						
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	30.0	0.0	0.0	30
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	30		5.0		19.0	54
Subject objectives	The aim of the course is to equip students with:- knowledge of the basics of Building Information Modeling (BIM) technology in design practice,- ability to create an integrated BIM model design- ability to filter and process BIM model data in order to obtain basic analyses, summaries, projections, visualizations and animations.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[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 comprehensively 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.			[SU1] Assessment of task fulfilment		
	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		
	K7_U06	Is able to design and analyze the project.			[SU1] Assessment of task fulfilment		
Subject contents	Introduction to BIM technology. BIM models, basic concepts: LOD, LOI, BIM nD. Teamwork, file sharing. Data hierarchy, object taxonomy, parameter structure. Project template and view templates.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	presentation		60.0%		40.0%		
	project		60.0%		60.0%		
Recommended reading	Basic literature		Anger A., Łaguna P., Zamara B.: BIM dla managerów, PWN, 2021				
			Kaszniak D.: BIM w praktyce. Standardy. Wdrożenie. Case Study, PWN Warszawa, 2018				
	Supplementary literature		https://buildingsmart.org.pl/open-bim/				

	eResources addresses	Adresy na platformie eNauczenie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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