

Subject card

Subject name and code	. PG 00069057									
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Field of study	BIM w zarządzaniu nieruchomościami									
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026				
Education level	second-cycle studies		Subject group							
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			3.0				
Learning profile	general academic profile		Assessmer	Assessment form			assessment			
Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology									
Name and surname	Subject supervisor		dr inż. Emilia Miszewska							
of lecturer (lecturers)	Teachers									
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM		
	Number of study hours	15.0	0.0	30.0	0.0		0.0	45		
	E-learning hours included: 0.0									
	eNauczanie source addresses: Moodle ID: 2656 BIM w zarządzaniu nieruchomościami https://enauczanie.pg.edu.pl/2025/course/view.php?id=2656									
Learning activity and number of study hours	Learning activity Participation in classes includ plan				Self-study		SUM			
	Number of study hours	45		0.0		0.0		45		
Subject objectives	The aim of the course BIM in Property Management is to introduce students to the use of Building Information Modeling technology for effective planning, monitoring, and maintenance of buildings during their operational lifecycle.									
Learning outcomes	Course outcome		Subject outcome			Method of verification				
	[K7_U06] creates solutions to complex and unstructured problems taking into account the variability of the environment by synthesising information from different sources, using analytical and simulation methods		problems related to property management by synthesizing information from BIM models and other data sources, and by applying appropriate analytical and simulation methods.			[SU4] Ocena umiejętności korzystania z metod i narzędzi [SU1] Ocena realizacji zadania [SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym				
	[K7_W05] has a well- knowledge of analytic and surveying techninecessary for creating a variety of problems and cartography									

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Subject contents	Course content – lecture							
	Lecture							
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	Introduction to BIM technologies used in property management							
	Acquisition of data on existing buildings (e.g. 3D scanning) Creation and updating of models reflecting the actual condition of a building Use of BIM data in building operation and maintenance processes Course content – laboratory Laboratory Working with data collected from building measurements Basic processing of a point cloud							
	Creation of a simplified building model based on measurement data							
	Adding information required for property management and presenting it within the model							
Prerequisites								
and co-requisites								
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	test	60.0%	50.0%					
	project	60.0%	50.0%					
Recommended reading	Basic literature	 Anger, A., Łaguna, P., & Zamara, B. (2021). BIM dla managerów. Wydawnictwo Naukowe PWN. Kasznia, D., Magiera, J., & Wierzowiecki, P. (2020). BIM w praktyce. Standardy, wdrożenie, case study. Wydawnictwo Naukowe PWN. Roper, K. O., & Payant, R. P. (2014). The facility management handbook (4th ed.). AMACOM. Teicholz, P. (Ed.). (2013). BIM for facility managers. John Wiley & Sons. Eastman, C., Teicholz, P., Sacks, R., & Liston, K. (2018). BIM handbook: A guide to building information modeling for owners, designers, engineers, contractors, and facility managers (3rd ed.). John Wiley & Sons. 						
	ormation about buildings and civil ng information modelling (BIM)							
		ISO 196503 Information management using building information modelling (BIM) Operational phase of the assets.						
		ISO 167391 Industry Foundation Classes (IFC) for data sharing in the construction and facility management industries Part 1: Data schema.						
	eResources addresses							
Example issues/ example questions/ tasks being completed	Sample question: What are the main steps in preparing the setup for terrestrial laser scanning of a building, and why is each step important for the quality of the point cloud?							
	Test based on knowledge from lectures and laboratory classes.							

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Practical activites within	Not applicable
the subject	

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