

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Integrated design, PG_00064751								
Field of study	Power Engineering								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject group			Specialty subject group Subject group related to scientific research 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			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Buildir	Department of Building Engineering -> Faculty of Civil and Environme				tal Engineering			
Name and surname	Subject supervisor		dr inż. Wojciech Migda						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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 classes includ plan				Self-study		SUM	
	Number of study hours	30		8.0		37.0		75	
Subject objectives	The aim of the course (BIM) technology in d process BIM model d animations.	lesign practice,	- ability to creat	te an integrate	d BIM m	nodel de	esign- ability	to filter and	
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_U03] identifies and formulates task specifications in the scope of energy systems, machines and devices, transmission grids, buildings and internal installations		Is able to design and analyze the project.			[SU1] Assessment of task fulfilment			
	[K7_U15] evaluates the feasibility of advanced methods and tools for solving complex engineering tasks of a practical nature, characteristic of the field of study, and selects and applies appropriate methods and tools for this purpose		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			
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			
	project		60.0%			100.0%			
Recommended reading			Anger A., Łaguna P., Zamara B.: BIM dla managerow, PWN, 2021 Kasznia D.: BIM w praktyce. Standardy. Wdrozenie. Case Study, PWN						
			Warszawa, 2018						
	Supplementary literature		https://buildingsmart.org.pl/open-bim/						
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Example issues/ example questions/ tasks being completed	Creat a BIM model and export it into IFC format.
Work placement	Not applicable

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