

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	ng Engineering	-> Faculty of Civil and Environmental			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	Project	t	Seminar	SUM	
	Number of study hours	0.0	0.0	30.0	0.0		0.0	30	
	E-learning hours inclu	uded: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30	8.0		37.0		75		
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_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 of advanced methods a solving complex engine of a practical nature, ch of the field of study, and applies appropriate and tools for this purpos						[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	ssessment methods Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria			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/						
	es	Adresy na platformie eNauczanie:							
			, ,						

Data wygenerowania: 05.02.2025 18:42 Strona 1 z 2

Example issues/ example questions/ tasks being completed	Creat a BIM model and export it into IFC format.
Work placement	Not applicable

Document generated electronically. Does not require a seal or signature.

Data wygenerowania: 05.02.2025 18:42 Strona 2 z 2