

Subject card

Subject name and code	Integrated design, PG_00064751								
Field of study	Power Engineering								
Date of commencement of	February 2026	Academic year of			2026/2027				
studies	1 Goldary 2020		Academic year of realisation of subject			2026/2027			
Education level	second-cycle studies		Subject group			Specia	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 Building Engineering -> Faculty of Civil and Environmental Engineering -> Wydziały Politechniki Gdańskiej						ziały		
Name and surname	Subject supervisor		dr inż. Wojciech Migda						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial Laboratory Project		t	Seminar	SUM		
of instruction	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 included		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 [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 [K7_U03] identifies and formulates task specifications in the scope of energy systems, machines and devices, transmission grids, buildings and internal installations		Subject outcome			Method of verification			
			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. Is able to design and analyze the			[SU1] Assessment of task fulfilment			
						[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 Subject p		g criteria	Passing threshold		Percentage of the final grade				
and criteria	project		<u> </u>			100.0%			
Recommended reading	Basic literature 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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