

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00060049							
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	Katedra Wytrzymałości Materiałów -		> Faculty of Civil and Environmental			Engineering		
Name and surname	Subject supervisor	dr inż. Wojcie	ch Migda					
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	ct Seminar SUM		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 includ plan				udy	SUM	
	Number of study hours	30	5.0		20.0		55	
Subject objectives	The aim of the course - knowledge of the ba	isics of Building	g Information M	I lodeling (BIM) f	echnolo	ogy in d	esign and im	plementation
	The aim of the course - knowledge of the ba practice in the field of - the ability to implem - the ability to filter an visualizations and an	Isics of Building HVAC system ent an integrate d process BIM mations	g Information M s ed design (arch model data in	nitecture, ventila order to obtain	ation) of	f the Bll nalyzes	M model s, summaries,	projections,
Subject objectives	The aim of the course - knowledge of the ba practice in the field of - the ability to implem - the ability to filter an visualizations and an Course out	Isics of Building HVAC system ent an integrate d process BIM mations	g Information M s ed design (arch model data in Subj	nitecture, ventil order to obtain ect outcome	ation) of basic a	f the BII nalyzes	M model s, summaries, Method of ve	projections,
	The aim of the course - knowledge of the ba practice in the field of - the ability to implem - the ability to filter an visualizations and an	Isics of Building HVAC system ent an integrate d process BIM mations	g Information M s ed design (arch model data in Subj	nitecture, ventila order to obtain	ation) of basic an ojects	f the Bll nalyzes [SU1] / fulfilme [SU5] /	M model s, summaries, Method of ve Assessment of	projections, rification of task of ability to
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Learning outcomes Subject contents Prerequisites and co-requisites	The aim of the course - knowledge of the ba practice in the field of - the ability to implem - the ability to filter an visualizations and an Course out K7_U06 [K7_U01] can obtain from literature, datab other sources; can ir obtained information critically evaluate the conclusions, and forr comprehesively justi K7_W05 Introduction to BIM te tools for Collaboration Revit environment, da templates. Work with Preparation of an ana calculation and analy lists. Clash checking Knowledge of Compu	isics of Building HVAC system ent an integrate d process BIM imations come information ases and tegrate the interpret and em, draw mulate and fy the opinions chnology. BIM h. ata hierarchy, o external Revit alytical model o sis of the repor and resolution.	g Information M s ed design (arch model data in Subj Designs and a The student c technical doct conclusions, p results The student c responsibility action, reliabil their adaptatic models, basic bject systemat / IFC models a f spaces, zone t, system inspe	initecture, ventiliorder to obtain ect outcome analyses the pre- analyses the pre- preates and use umentation, dra presents his work onsiders in engineering ity of his result on concepts: LOD ics, parameter nd with HVAC s, statements. Section, system of	ation) of basic at ojects s ws rk s and , LOI, B structur modelin Verificat color leg	[SU1] / fulfilme [SU5] / presen [SU3] / use me [SU2] / analyse [SU2] / analyse [SU2] / analyse [SW1] . knowle	M model s, summaries, Method of ve Assessment of the results of Assessment of ethods and to Assessment of e information Assessment of ge Teamwork, fi gn template a he analytical	projections, rification of task of ability to of task of ability to ols of ability to of factual ile sharing, and view model, modification of

Recommended reading	Basic literature	Anger A., Łaguna P., Zamara B.: BIM dla managerów, PWN, 2021 Kasznia D.: BIM w praktyce. Standardy. Wdrożenie. Case Study, PWN Warszawa, 2018. Lipska B.: Projektowanie wentylacji i klimatyzacji : urządzenia i przewody, Wydawnictwo Politechniki Śląskiej, 2018 Tomana A.: BIM Innowacyjna technologia w budownictwie. Podstawy, standardy, narzędzia, PWB MEDIA, Warszawa, 2016 Autodesk Revit - instrukcja użytkownika. BIM Standard PL, https://www.uzp.gov.pl/data/assets/pdf_file/ 0024/43449/BIM-Standard-wersja-opublikowana-2.0.pdf
	Supplementary literature	Autodesk Revit 2022 MEP Fundamentals, ASCENT, 2021
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Team design of a ventilation system	for a sport hall / public facility.
Work placement	Not applicable	

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