GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00069313		
Field of study	Civil Engineering		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2026/2027
Education level	first-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	4	Language of instruction	Polish
Semester of study	7	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Building Engineering -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor		
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	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 didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	30	2.0	18.0	50

Subject objectives

The aim of the course is to familiarize students with working in the Building Information Modeling software environment.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W06] Demonstrates practical knowledge and understanding of materials, devices and tools, processes and technologies in the field of civil engineering (and their limitations).	Can prepare complete technical documentation.	[SW3] Assessment of knowledge contained in written work and projects
[K6_W07] Understand the investment's impact on the environment and the interrelationships and dependencies between the building structure and the natural environment	Is able to aevaluate the impact of adopted solutions on the environment.	[SW3] Assessment of knowledge contained in written work and projects
[K6_U06] Conduct engineering activities in civil engineering subject area, using and applying practical knowledge and understanding of materials, equipment and tools, processes and technologies.	Can prepare and evaluate a 3D model in a BIM environment.	[SU1] Assessment of task fulfilment
[K6_K01] Is aware of the key aspects of professional, ethical and social responsibility related to management, business operation, decision making and opinion formulation in civil engineering.	Knows basic design procedures.	[SK2] Assessment of progress of work
[K6_U07] Design and build engineering structures in a sustainable manner, with care for the natural environment and a minimum carbon footprint	Is able to evaluate the correctness of the adopted solutions.	[SU2] Assessment of ability to analyse information

<table>
<tr><td>Subject contents</td><td>Course content – laboratory

The course covers basic BIM concepts, including:
- scale and level of detail (LOD),
- building and structure structure,
- model derivatives in the form of drawings and reports.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>project</td><td>60.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>BIM w praktyce: standardy, wdrożenie, case study, Dariusz Kasznia, Jacek Magiera, Paweł Wierzowiecki, 2017 Wydawnictwo Naukowe PWN</td></tr><tr><td>Supplementary literature</td><td>BIM STANDARD PL, Warszawa, wrzesień 2020 - https://www.gov.pl/web/rozwoj-technologia/realizuj-inwestycje-zgodnie-z-metodyka-bim---opracowanie-bim-standard-pl</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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