GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Urban and industrial engineering, PG_00044852		
Field of study	Geodesy and Cartography		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2025/2026
Education level	first-cycle studies	Subject group	Optional 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	3	Language of instruction	Polish
Semester of study	6	ECTS credits	6.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Emilia Miszewska	
	Teachers	dr inż. Emilia Miszewska	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	45.0	30.0	0.0	0.0	0.0	75

E-learning hours included: 0.0

eNauczanie source address: https://enauczanie.pg.edu.pl/2025/course/view.php?id=3029

Moodle ID: 3029 Inżynieria Miejska i Przemysłowa
https://enauczanie.pg.edu.pl/2025/course/view.php?id=3029

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	75	9.0	66.0	150

Subject objectives

The aim of the course is to present basic knowledge about the principles of planning, design, construction and operation of buildings in urban and industrial zones. Using the already acquired geodetic knowledge to prepare studies needed to implement the investment and operational process.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U02] can make basic geodetic drawings and read an architectural technical drawing	The student is able to make basic geodetic drawings and read a technical architectural and construction drawing in order to obtain information for the implementation of the investment process.	[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information
[K6_W10] has elementary knowledge and understands the concepts of architecture and urban planning, construction, environmental engineering and transport necessary to carry out studies related to planning and investment service	The student has basic knowledge of the principles of preparing technical and surveying studies needed for the proper conduct of the investment process and the operation phase of a building.	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation

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

Lectures:

• Fundamental terminology used in the construction industry.
• Basic materials and technologies applied in construction.
• Principles of real estate operation and maintenance.
• Elements of construction cost estimation.
Course content – exercises
Practical Classes:

• Collection and analysis of data concerning a selected real estate property.
• Development of a Property Management Plan for a selected real estate asset.
• Preparation of an abridged cost estimate for selected construction works.</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>Lecture (test)</td><td>60.0%</td><td>35.0%</td></tr>
<tr><td>Lecture (presentation)</td><td>0.0%</td><td>15.0%</td></tr>
<tr><td>Lecture (2 works)</td><td>60.0%</td><td>40.0%</td></tr>
<tr><td>Oral defense</td><td>0.0%</td><td>10.0%</td></tr>
</table>
</td></tr>
<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>Lecture:1. Popek M., Wapińska B., Basics of construction. WSiP Publishing House, Warsaw 2009,2. Popek M., Wapińska B., General construction. WSiP Publishing House, Warsaw 2013,3. Edited by Panas J., New Construction Foreman's Guide. Arkady Publishing House 2009,
Exercises1. Bryx M. collective work, Basics of real estate management. Poltext Publishing House, Warsaw 2009,2. Sobczak A., Real estate management plan. Poltext Publishing House, Warsaw 2008,3. Mączyńska E., Prystupa M., Rygiel K., How much is real estate worth? Poltext Publishing House, Warsaw 2009,4. Foryś I. collective work, Real estate management commercial. Poltext Publishing House, Warsaw 2006.</td></tr>
<tr><td>Supplementary literature</td><td>1. Kowalczyk Z., Zabielski J., Cost estimation and standardization in construction. WSiP Publishing House, Warsaw 2005,2. Popek M., Wapińska B., Basics of construction. WSiP Publishing House, Warsaw 2009,3. Popek M., Wapińska B., General construction. Coursebook. WSiP Publishing House, Warsaw 2009,</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
</table>
</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>Development of elements of a management plan for a selected property
Preparation of a fragment of the cost estimate for selected works</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
</table>

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