



## Subject card

Subject name and code	Urban and industrial engineering, PG_00044852						
Field of study	Geodesy and Cartography						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies	Subject group			Obligatory subject group in the field of study Optional subject group		
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						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Emilia Miszewska					
	Teachers						
Lesson types and methods of instruction	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						
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.			[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task		
	[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.			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects		
Subject contents	Lectures: Basic concepts used in construction. Basic materials and technologies used in construction. Basics of real estate exploitation. Elements of cost estimation Exercises: Collecting information regarding the selected property Development of a Management Plan for the selected property Preparation of a shortened version of the cost estimate for selected construction works						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	Lecture (presentation)	60.0%			40.0%		
	Exercises (3 works)	60.0%			60.0%		

Recommended reading	Basic literature	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.
	Supplementary literature	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,
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Development of elements of a management plan for a selected propertyPreparation of a fragment of the cost estimate for selected works	
Work placement	Not applicable	