GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Investment project management, PG_00070174		
Field of study	Real Estate 5.0		
Date of commencement of studies	February 2026	Academic year of realisation of subject	2026/2027
Education level	second-cycle studies	Subject group	Optional subject group 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 -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Magdalena Apollo	
	Teachers	dr inż. Magdalena Apollo	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	0.0	15.0	0.0	45

E-learning hours included: 0.0

eNauczanie source address: https://enauczanie.pg.edu.pl/2025/course/view.php?id=7410

Moodle ID: 7410 Zarządzanie projektem inwestycyjnym https://enauczanie.pg.edu.pl/2025/course/view.php?id=7410

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	45	3.0	27.0	75

Subject objectives

The aim of the course is to provide students with knowledge and develop practical skills in the preparation, planning, implementation, monitoring, and control of investment projects, with particular emphasis on construction projects. The course is intended to equip students with competencies related to project scheduling, resource, cost, and risk management, as well as the use of IT tools supporting project management, including Microsoft Project.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U05] is able to manage real estate assets throughout their entire life cycle, applying knowledge in the areas of brokerage, investment, and asset management. The student can utilize modern tools and technologies (including digital solutions, PropTech, and BIM), incorporate the principles of sustainable development, ESG, wellbeing, and green certifications, as well as conduct due diligence analyses and effectively implement investment projects.	Student is able to develop an investment project implementation plan, including a work breakdown structure, schedule, resource allocation, and risk identification, using IT tools that support project management (MS Project).	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task
[K7_W05] possesses advanced interdisciplinary knowledge of procedures, methods, and theories related to real estate trading, property management, and operation, as well as other processes characteristic of the functioning of the real estate market. The student understands the organizational and legal conditions governing the professional practice of real estate agents, property managers, and other specialists operating within the real estate sector.	Student knows and understands project management methods and tools applied in investment projects, including the principles of schedule planning, cost, resource and risk management, as well as monitoring and controlling project implementation.	[SW3] Assessment of knowledge contained in written work and projects

Subject contents

Course content – lecture

Nature and characteristics of investment projects. Project life cycle and project management processes in investment projects. Definition of project objectives, scope, and stakeholders. Work Breakdown Structure (WBS). Planning and scheduling of investment projects using CPM and PERT network techniques. Time, resource, cost, and risk management in projects. Project monitoring and control, including the application of the Earned Value Management (EVM) method. Contemporary IT tools supporting project management. Application of Microsoft Project in the planning and control of investment projects. Fundamentals of project team organization and project communication.

Course content – project

Development of an investment project using project management methods and tools. Preparation of a Work Breakdown Structure (WBS), definition of task dependencies, and creation of a project schedule using Microsoft Project. Resource planning and allocation, resource workload analysis, and project cost estimation. Identification and assessment of project risks. Monitoring project progress and analyzing deviations using Earned Value Management (EVM) indicators. Preparation of project documentation and interpretation of project planning and control results.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
-	0.0%	10.0%
-	60.0%	40.0%
-	60.0%	35.0%
-	0.0%	10.0%
-	0.0%	5.0%

Recommended reading

Basic literature	-
Supplementary literature	-
eResources addresses	

Example issues/ example questions/ tasks being completed

-

Practical activites within the subject	Not applicable

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