

Subject card

Subject name and code	Technical Management of Real Estate , PG_00156106						
Field of study	Management						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's 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		7.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Department of Investment and Real Estate -> Faculty of Management -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Małgorzata Rymarzak				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	30.0	15.0	0.0	0.0	75
	E-learning hours included: 0.0						
	Additional information:						
	• Problem-based lecture • Lecture with multimedia presentation • Discussion • Project method (research, implementation, practical project) • Group work • Computer lab exercises						
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		14.0		86.0	175
Subject objectives	The aim of the course is to synthetically present issues related to the technical management of real estate in order to prepare students to pursue professions related to real estate management, in particular real estate valuation and management, as well as the development process.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[ZARZL3_U07] The student is able to search for information necessary in making rational decisions of an operational and strategic nature in enterprises.	The student can search for the necessary information for the technical management of real estate.	[SU2] presentation/project/paper/report
	[ZARZL3_K06] The student is ready to work in, co-create or manage a group. The student is able to think and act in an entrepreneurial manner.	The student is willing to work in groups, co-create them or manage them. The student can think and act in an entrepreneurial way for the needs of technical management of real estate.	[SK2] presentation/project/paper/report
	[ZARZL3_W14] The student has a structured detailed knowledge of the selected specialty in the field of management.	The student has detailed, structured knowledge of technical real estate management.	[SW4] test/exam - oral or written
	[ZARZL3_K02] The student is aware of the need to supplement and expand the acquired knowledge and skills and strives to combine knowledge from different fields and disciplines of science interdisciplinarily.	The student is aware of the need to supplement and expand acquired knowledge and skills in technical real estate management and tries to combine knowledge from various fields and disciplines of science in an interdisciplinary manner.	[SK2] presentation/project/paper/report
	[ZARZL3_W01] The student has advanced knowledge in the social sciences, with particular emphasis on the discipline of management and quality sciences, and understands their interrelationships with other social sciences.	The student has advanced knowledge in the field of technical real estate management.	[SW4] test/exam - oral or written
	[ZARZL3_U04] The student is able to use the acquired knowledge of management science and quality in professional practice.	The student can apply acquired knowledge in the field of technical real estate management in professional practice.	[SU2] presentation/project/paper/report
Subject contents	[ZARZL3_U02] The student is able to correctly use the legal acts regulating the sphere of formal and legal organization of the establishment and operation of enterprises in Poland.	The student can correctly use basic legal acts regulating issues of technical real estate management.	[SU4] test/exam - oral or written
	1. Basics of construction (22h)		
	2. Review of technologies in construction (8 hours)		
	3. Investment process in construction (8 hours)		
	4. Assessment of the technical condition of buildings (10 hours)		
	5. Cost estimation (15h)		
	6. Management of the implementation of FIDIC investment projects (12 hours):		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	partial test 3	51.0%	25.0%
	partial test 2	51.0%	25.0%
	partial test 1	51.0%	25.0%
	project	51.0%	25.0%
Recommended reading	Basic literature		
	1. Dziworska K., Trojanowski D., Projekt deweloperski-fazy, etapy i działania - Prace i Materiały Wydziału Zarządzania Uniwersytetu Gdańskiego, nr 3/2007, s.25-38. 2. Maj T., Sporządzanie kosztorysów, WSiP, Warszawa 2015. 3. Popek M., Wapińska B., Podstawy budownictwa. Podręcznik, WSiP, Warszawa 2013. 4. Rymarzak M., Zarządzanie nieruchomościami przedsiębiorstw w Polsce, CeDeWu, Warszawa 2009, rozdział 2.		

	Supplementary literature	1. Popek M., Wapińska B., Budownictwo ogólne. Podręcznik, WSiP, Warszawa 2013. 2. Kowalczyk Z., Zabielski J., Kosztorysowanie i normowanie w budownictwie, WSiP, Warszawa 2011. 3. Rozporządzenie Ministra Infrastruktury z dnia 18. 05. 2004r w sprawie metod i podstaw sporządzania kosztorysu inwestorskiego, obliczania planowanych kosztów prac projektowych oraz planowanych kosztów budowlanych określonych w programie funkcjonalno-użytkowym (Dz. U. Nr 130 z 2004, poz. 1389). 4. Izba Projektowania Budowlanego, Środowiskowe zasady obliczania wartości kosztorysowej inwestycji budowlanych, Warszawa 2003. 5. Ustawa z dnia 7 lipca 1994 r. Prawo budowlane (Dz. U. 1994 Nr 89 poz. 414 z późn. zm.). 6. Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie (z późn. zm.). 7. Rozporządzenie Ministra Spraw Wewnętrznych i Administracji z dnia 16 sierpnia 1999 r. w sprawie warunków technicznych użytkowania budynków mieszkalnych (z późn. zm.). 8. Jurga R., Weiss I., Inwestycje budowlane, C.H.Beck, Warszawa 1999. 9. Fabijański M., Kacprzyk B., Sielewicz O., Metody kosztorysowania robót budowlanych, WACETOB, Warszawa 2008. 10. Pliszka E. (red.) Vademecum budowlane, Arkady Warszawa 2001. 11. Warunki kontraktu na realizację EPC/pod-klucz (FIDIC zielony edycja 1999), Wydawnictwo Cosmopoli, Warszawa 2000. 12. Warunki Kontraktu na Budowę (FIDIC czerwony edycja 2017), Wydawnictwo SIDiR, Warszawa 2017. 13. Warunki Kontraktu na urządzenia i budowę z projektowaniem (FIDIC żółty edycja 2017), Wydawnictwo SIDiR, Warszawa 2017. 14. Warunki Kontraktowe FIDIC dla projektowania, budowy i obsługi (FIDIC złoty edycja 2008), Wydawnictwo SIDiR, Warszawa 2010.
	eResources addresses	
Example issues/ example questions/ tasks being completed	Technical wear and tear of a facility results from: • utility solutions, the method of finishing and equipping the facility with technical devices, intended use that makes it difficult or impossible to change the method of use, • age of the building, durability of the materials used, quality of construction work, • atmospheric pollution, lack of sunlight, watercourses, ecological threats.	
Work placement	Not applicable	

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