

Subject card

Subject name and code	Real Estate Technical Management, PG_00178236						
Field of study	Management						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2028/2029		
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						
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		4.0		96.0	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_W06] Has advanced knowledge and understanding of the principles of rational decision-making about individual resources, functional areas in the organization, processes, and management levels		The student identifies the principles of rational decision-making related to the technical management of real estate.			[SW4] test/exam - oral or written	
	[ZARZL3_U03] Can obtain data from properly selected and verified sources and use these data to analyse and evaluate economic processes and phenomena		The student uses the appropriate data to prepare a cost estimate (using Norma Pro software).			[SU2] presentation/project/paper/report	
	[ZARZL3_U04] Can correctly select and properly apply methods and tools from management and quality sciences, as well as economics and finance, to decision-making processes		The student uses appropriate methods and tools in the process of technical management of real estate.			[SU4] test/exam - oral or written [SU5] implementation of a problem task	
Subject contents	<ol style="list-style-type: none"> 1. Introduction to Technical Management of Real Estate 2. Overview of Modern Technologies Used in Buildings 3. Operation and Technical Maintenance of Real Estate 4. Diagnostics and Technical Assessment of Buildings 5. Construction Cost Analysis 						

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written colloquium	51.0%	30.0%
	Project	51.0%	20.0%
	Written exam	51.0%	50.0%
Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. Popek M., Wapińska B., Podstawy budownictwa. Podręcznik, WSiP, Warszawa 2013. 2. Rymarzak M., Zarządzanie nieruchomościami przedsiębiorstw w Polsce, CeDeWu, Warszawa 2009, rozdział 2. 3. Maj T., Sporządzanie kosztorysów, WSiP, Warszawa 2015. 4. Korzeniewski W., Zasady obmiaru i obliczania powierzchni i kubatury budynków, POLCEN, Warszawa 2011. 	
	Supplementary literature	<ol style="list-style-type: none"> 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. Ustawa z dnia 7 lipca 1994 r. Prawo budowlane (Dz. U. 1994 Nr 89 poz. 414 z późn. zm.). 4. Fabijański M., Kacprzyk B., Siewicz O., Metody kosztorysowania robót budowlanych, WACETOB, Warszawa 2008. 5. Pliszka E. (red.) Vademecum budowlane, Arkady Warszawa 2001. 6. Warunki kontraktu na realizację EPC/pod-klucz (FIDIC zielony edycja 1999), Wydawnictwo Cosmopoli, Warszawa 2000. 7. Warunki Kontraktu na Budowę (FIDIC czerwony edycja 2017), Wydawnictwo SIDiR, Warszawa 2017. 8. Warunki Kontraktu na urządzenia i budowę z projektowaniem (FIDIC żółty edycja 2017), Wydawnictwo SIDiR, Warszawa 2017. 9. 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			
Work placement	Not applicable		

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