

Subject card

Subject name and code	IT Project and Portfolio Management, PG_00177454						
Field of study	Informatics and Econometrics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study 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	1		Language of instruction		English English		
Semester of study	2		ECTS credits		7.0		
Learning profile	academic		Assessment form		exam		
Conducting unit	Department of Business Informatics -> Faculty of Management -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Natalia Michalek				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	45.0	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 provide theoretical and practical knowledge of project, program and portfolio management of IT projects in an organisation. Students learn the principles of creating and developing project management structures, including project management offices (PMOs), learn to apply IT project management methodologies and standards and analyse their fit with business needs. Particular emphasis is placed on planning and monitoring the IT project life cycle, managing the project team, differentiating between product and project, and assessing the project maturity of the organisation. The learning outcome is the ability to design and implement effective structures for managing IT initiatives in a way that is integrated with the strategic objectives of the business.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[liEMU2_U03] The student is able to obtain and verify data from properly selected sources and to collect, process, and visualize it using modern econometrics, informatics or statistics tools.		The student is able to use IT tools to analyse, plan and monitor the life cycle of IT projects, manage the project team, scope, budget, time, as well as analyse and monitor risks and problems, based on the data processed there.		[SU2] presentation/project/paper/report		
	[liEMU2_U12] The student can adapt, design, create, and operate IT systems that support business entities.		The student is proficient in the use of IT tools for portfolio, programme and project management as well as product management.		[SU2] presentation/project/paper/report		
	[liEMU2_W05] The student possesses advanced knowledge and understanding of informatics, statistics, and econometrics techniques and tools used to acquire, process, or visualise data to aid in decision-making and verify research hypotheses.		The student knows and understands project management methodologies and project management office (PMO) standards, including IT tools supporting project management processes appropriate in this area, but also products.		[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report		

Subject contents	1. Management of IT portfolios, program and projects. 2. Construction and development of a project management office. 3. Portfolio management instruments. 4. Definition, role and characteristics of IT projects. 5. Methodologies and standards for IT project management. 6. Project maturity of the organisation, IT-business alignment. 7. Process areas and groups in IT project management.		
Prerequisites and co-requisites	The student should have a basic knowledge of IT project management.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written test	51.0%	50.0%
	Credit project	51.0%	50.0%
Recommended reading	Basic literature	1. Authors' teaching materials (lecture and laboratory) of the instructors. 2. Pawlak, M., Project management. Wydawnictwo Naukowe PWN, Warsaw 2022. 3. Jasińska K., Szapiro T., Zarządzanie procesami realizacji projektów w sektorze ICT, Wydawnictwo Naukowe PWN, Warsaw 2014. 4. Wyróżewski P., Project management office (PMO), Polskie Wydawnictwo Ekonomiczne, Warsaw 2019. 5. Wrycza, S. (ed.), Economic informatics: an academic textbook, Wydawnictwo Naukowe PWN, Warsaw 2010.	
	Supplementary literature	Kaczor K., Scrum and beyond. Theory and practice in Agile methods, Wydawnictwo Naukowe PWN, Warsaw 2020.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. Building an IT project portfolio structure. 2. Structure and place of the project management office in the organisation (case study at portfolio, programme, project level). 3. The IT project life cycle. 4. Project versus product management. 5. Methodologies and standards for IT project management. 6. The project team. 7. Process areas and groups in IT project management (case study).		
Work placement	Not applicable		

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