



Subject card

Subject name and code	Management of IT Resources in the Enterprise, PG_00044764						
Field of study	Engineering Management						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies	Subject group			Obligatory subject group in the field of study 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	2	Language of instruction			Polish		
Semester of study	3	ECTS credits			4.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Department of Informatics in Management -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Magdalena Ciesielska					
	Teachers	dr inż. Magdalena Ciesielska					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0	0.0	30
	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	30	8.0		62.0		100
Subject objectives	The objective of this course is to gain knowledge on Information Technology resource management. Student will gain knowledge on emerging technologies, their application in business, as well as fundamental knowledge on human resource management in IT sector, infrastructure management, IT service management, IT asset management and legal implication of emerging technology implementation.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_U09] obtains data for analysis and interpretation of results using information technology				[SU1] Assessment of task fulfilment		
	[K6_U12] can design the process of exploitation of production and IT infrastructure with the use of appropriate methods, techniques and tools				[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		
	[K6_W12] has a basic knowledge of production management and occupational safety and ergonomics management, as well as information technologies necessary for engineering management				[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation		
Subject contents	The concept of the Resource-Based View. Definition of IT Resources and Life Cycle. IT strategy. Emerging Technologies in business. IT-Business Alignment. Information Systems. ITSM. IT Audit. ITAM. IT Human Resource Management. IT architecture Frameworks. IT Project Management. IT Risk Management. IT Outsourcing. Legal and economic aspect of IT contracts.						
Prerequisites and co-requisites	none						
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
		60.0%			50.0%		
		60.0%			50.0%		

Recommended reading	Basic literature	M. Ciesielska, G. Musiatowicz-Podbiał, Zarys problematyki zarządzania zasobami informatycznymi w przedsiębiorstwie, Wydawnictwo Politechniki Gdańskiej, Gdańsk, 2021
	Supplementary literature	<ul style="list-style-type: none"> • ITIL v. 3, ITIL v4 • CobiT v5; CobiT v2019 • ISO/IEC 20000:1; 20000:2 • Prince2; PMBOK, DSDM, Scrum • Barney J.B., Clark D.N. (2007), Resource-based Theory. Creating and Sustaining Competitive Advantage, Oxford University Press, New York. • Oblój K. (1998), Strategia organizacji, PWE, Warszawa. • Teece D., Pisano G., Shuen A. (1997), Dynamic Capabilities and Strategic Management, Strategic Management Journal, Vol. 18, No. 7. • Hilty, L.M., 2008, Information Technology and Sustainability. Essays on the Relationship between ICT and Sustainable Development, Books on Demand, Norderstedt. • Bharadwaj, Anandhi S. "A Resource-Based Perspective on Information Technology Capability and Firm Performance: An Empirical Investigation." <i>MIS Quarterly</i> 24, no. 1 (2000): 169-96. • J. Peppard, J. Ward, Beyond strategic information systems: towards an IS capability, The Journal of Strategic Information Systems, 2004, vol. 13, no 2. • Ravichandran, T. and Lertwongsatien, C. 2005. Effect of information systems resources and capabilities on firm performance: a resource-based perspective. <i>Journal of Management Information Systems</i>, 21(4): 237276. • Feeny, D. F. and Willcocks, L. P. 1998. Re-designing the IS function around core capabilities. <i>Long Range Planning</i>, 31(3): 354367. • Brown, D. H. and Lockett, N. 2004. Potential of critical e-applications for engaging SMEs in e-business: a provider perspective. <i>EJIS</i>, 13(1): 2134. • Luftman J.N., Assessing businessIT alignment maturity, Communications of the Association of Information Systems 4 (14), 2000, pp. 150. • J. C. Henderson and N. Venkatraman, Strategic alignment :Leveraging information technology for transforming organizations,<i>IBM Syst. J.</i>, vol. 32, no. 1, pp. 472484, 1993. • Chen, D., Mocker, M., Preston D., Teubner A., Information Systems Strategy: Reconceptualization, Measurement, and Implications, <i>MIS Quarterly</i>, vol.34, No 2, pp 233-259, June 2010 • pod red. Stanisław Wrycza; Informatyka ekonomiczna; PWE Warszawa 2010 • Arkadiusz Januszewski; Funkcjonalność Informatycznych systemów zarządzania - Zintegrowane systemy transakcyjne; PWN W-wa 2008 • Jerzy Kisielnicki, Zarządzanie i Informatyka" Placet 2014 • Kenneth C. Laudon and Jane Price Laudon, Management Information Systems. Managing the Digital Firm, 12th Edition, Pearson Education Ltd. 2014.
	eResources addresses	Adresy na platformie eNauczanie: ZZIT SS 2022 - Moodle ID: 24423 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=24423
Example issues/ example questions/ tasks being completed	Assign IT strategy. Provide SLA parameters. Calculate CAPEX/OPEX, TCO. Define IT service business model. Propose and IS supporting the firm. Define CC-BY license.	
Work placement	Not applicable	