



Subject card

Subject name and code	Management of IT Resources in the Enterprise, PG_00044763						
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	Part-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	8.0	0.0	8.0	0.0	0.0	16
	E-learning hours included: 0.0						
ZZIT NS 2022 - Moodle ID: 24424 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=24424							
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	16		8.0		76.0	100
Subject objectives	The aim of the course is to acquire knowledge about IT resource management in modern enterprise. The student will acquire knowledge about modern technologies and its use in the enterprise as well as basic knowledge in the field of human resource management in IT, infrastructure management, IT service management and the legal implications of implementing new technologies in the enterprise.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[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 [SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools	
	[K6_U09] obtains data for analysis and interpretation of results using information technology					[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	Resource Based View on IT. Definition of IT Resources. IT strategy. Emerging technologies in enterprise. IT-Business Alignment. ITSM. IT Audit. ITAM. IT Human Resource Management. Enterprise Architecture. IT Project Management. IT Outsourcing. Legal and economic issues of IT contracts.						
Prerequisites and co-requisites	none						
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade	
	Lecture		60.0%			50.0%	
	Laboratory		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	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. Obłój 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." MIS Quarterly 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. Journal of Management Information Systems, 21(4): 237-276. Feeny, D. F. and Willcocks, L. P. 1998. Re-designing the IS function around core capabilities. Long Range Planning, 31(3): 354-367. Brown, D. H. and Lockett, N. 2004. Potential of critical applications for engaging SMEs in e-business: a provider perspective. EJIS, 13(1): 21-34. Luftman J.N., Assessing business IT 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, IBM Syst. J., vol. 32, no. 1, pp. 47-2484, 1993. Chen, D., Mocker, M., Preston D., Teubner A., Information Systems Strategy: Reconceptualization, Measurement, and Implications, MIS Quarterly, 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	
Example issues/ example questions/ tasks being completed	assign correct IT strategy model. Identify SLA parameters. Estimate TCO, CAPEX/OPEX. Choose the correct business model for IT service delivery: SaaS, IaaS, PaaS.	
Work placement	Not applicable	