GDAŃSK UNIVERSITY OF TECHNOLOGY

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 2020	Academic year of realisation of subject	2021/2022
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	blended-learning
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: 15.0						
	Adresy na platformie eNauczanie: ZZIT SS 2021/22 - Moodle ID: 16680 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=16680						

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 aim of the course is for the student to gain knowledge of IT resource management in a modern enterprise. The student will gain knowledge about: IT strategy, Business-IT alignment, Information and IT systems, modern technologies and their use in a company as well as fundamental knowledge of Enterprise Architecture, IT competence management, infrastructure management, IT service management, outsourcing and IT audit.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_W12] has a basic knowledge of production management and occupational safety and ergonomics management, as well as information technologies necessary for engineering management		[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects
	[K6_U12] can design the process of exploitation of production and IT infrastructure with the use of appropriate methods, techniques and tools		[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information
	[K6_U09] obtains data for analysis and interpretation of results using information technology		[SU1] Assessment of task fulfilment

Subject contents	Theory of resources. IT strategy. Business-IT alignment. Balanced scorecard. Information and IT systems. IT platforms. Disruptive technologies. Enterprise Architecture. Asset management. Service management. Software engineering. IT competencies and roles. IT audit. IT Outsourcing.
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. Pańkowska, Zarządzanie zasobami informatycznymi. Difin. Warszawa 2001. Ciesielska M., Musiatowicz-Podbiał G., Zarys problematyki zarządzania zasobami informatycznymi w przedsiębiorstwie, Wydawnictwo Politechniki Gdańskiej, Gdańsk, 2021.
	Supplementary literature	• 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): 237276. • Feeny, D. F. and Willcocks, L. P. 1998. Re-designing the IS function around core capabilities. *Long Range Planning*, 31(3): 354367. • Brown, D. H. and Lockett, N. 2004. Potential of critical e-applications for engaging SMEs in e-business: a provider perspective. *EJIS*, 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,*IBM Syst. J.*, vol. 32, no. 1, pp. 472484, 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	ZZIT SS 2021/22 - Moodle ID: 16680 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=16680

Example issues/ example questions/ tasks being completed	Assign IT strategy. Provide SLA parameters. Define IT service business model. Propose and IS supporting the firm. Define CC-BY license.
Work placement	Not applicable