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 2022	Academic year of realisation of subject	2023/2024
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_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

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. Pańkowska, Zarządzanie zasobami informatycznymi. Difin. Warszawa 2001.

	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 e-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. 1–50. • J. C. Henderson and N. Venkatraman, “Strategic alignment :Leveraging information technology for transforming organizations,”*IBM Syst. J.*, vol. 32, no. 1, pp. 472–484, 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 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	