



Subject card

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|---|--|--|------------------------------|-------------------------------------|---|---|-----|
| 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 | | | | | | |
| ZZIT SS 2022 - Moodle ID: 24423 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=24423 | | | | | | | |
| 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% | |

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| 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 | |
| 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 | |