



Subject card

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| Subject name and code | Innovation Processes, PG_00040575 | | | | | | |
| 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 | 4 | ECTS credits | | | 2.0 | | |
| Learning profile | general academic profile | Assessment form | | | assessment | | |
| Conducting unit | Faculty of Management and Economics | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr hab. inż. Anna Lis | | | | | |
| | Teachers | dr hab. inż. Anna Lis dr inż. Jolanta Łopatowska | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 0.0 | 0.0 | 15.0 | 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 | 6.0 | | 14.0 | | 50 |
| Subject objectives | The aim of the course is to familiarize with the topic of innovation management and to understand the essence of innovation sources for the implementation of innovation processes in enterprises. | | | | | | |
| Learning outcomes | Course outcome | Subject outcome | | | Method of verification | | |
| | [K6_W06] has a basic knowledge of methods and tools for conducting research and analyses related to particular areas of the enterprise's operations and its environment | Has knowledge of how to diagnose the innovation capacity of firms | | | [SW1] Assessment of factual knowledge | | |
| | [K6_W03] has a basic knowledge of the relationship both within the organisation and between the organisation and the environment | student uses the concepts of legal and ethical aspects of management and the protection of industrial property and copyright | | | [SW3] Assessment of knowledge contained in written work and projects | | |
| | [K6_U04] forecasts phenomena and processes in the organisation, including technical and innovative processes | Can anticipate innovative and technical processes | | | [SU2] Assessment of ability to analyse information | | |
| | [K6_K03] initiates creative and entrepreneurial activities in the organization using the knowledge of engineering management | Inspires creative activities in the organization associated with the introduction of innovation in products, processes and organization | | | [SK5] Assessment of ability to solve problems that arise in practice | | |
| Subject contents | Lectures: Introduction; Definitions of innovation; Types of innovation; Sources of innovation; Obtaining innovation from outside the organization; Methods of generating ideas for innovation; Design Thinking; Blue ocean strategy; Disruptive innovation concept; Final exam Project: Market opportunity identification, trend analysis, preliminary market analysis, new product idea, idea generation and selection, blue ocean strategy, disruptive innovation, design product specification, morphological analysis, house of quality, final new product concept, final presentations | | | | | | |

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| Prerequisites and co-requisites | No requirements | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Written exam | 60.0% | 50.0% |
| | Project | 100.0% | 50.0% |
| Recommended reading | Basic literature | <p>Antoszkiewicz, J. (2008). Innowacje w firmie: praktyczne metody wprowadzania zmian. Wydawnictwo POLTEXT.</p> <p>Zarządzanie innowacją (2006). Harvard Business Review, Wydawnictwo HELION, Gliwice.</p> <p>Scott A. D. et al. (2010). Przez innowację do wzrostu. Jak wprowadzić innowację przełomową. Wolters Kluwer Polska, Warszawa.</p> <p>De Bono, E., & Krzemień-Rusche, J. (2008). Sześć myślowych kapeluszy. Helion.</p> <p>Kosieradzka, A. (2013). Metody i techniki pobudzania kreatywności. Edu-Libri, Kraków-Warszawa.</p> | |
| | Supplementary literature | <p>Pomykalski Andrzej: Zarządzanie innowacjami. Wydawnictwo Naukowe PWN, Warszawa-Łódź, 2001;</p> <p>Baruk Jerzy: Zarządzanie wiedzą i innowacjami. Wydawnictwo Adam Marszałek, Toruń, 2009;</p> <p>Niedzielski Piotr (i inni): Innowacyjność w działalności przedsiębiorstw. Kompendium wiedzy. Wydawnictwo Naukowe Uniwersytetu Szczecińskiego, Szczecin, 2007;</p> <p>Jasiński Andrzej H.: Innowacje i transfer techniki w procesie transformacji, Difin, Warszawa, 2006;</p> <p>Wirkus Marek, Lis Anna (red.), Zarządzanie projektami badawczo-rozwojowymi, Difin, Warszawa 2012;</p> <p>Wirkus Marek, Lis Anna (red.), Planowanie i rozwój nowych produktów, CeDeWu, Warszawa 2015</p> <p>Santarek Krzysztof (red.): Transfer technologii z uczelni do biznesu. Tworzenie mechanizmów transferu technologii, PARP, Seria Innowacje, Warszawa, 2008</p> | |
| | eResources addresses | <p>Adresy na platformie eNauczanie: Procesy innowacyjne 2023 - Moodle ID: 28816 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28816</p> | |
| Example issues/ example questions/ tasks being completed | The narrow and broad approach in defining innovation. | | |
| Work placement | Not applicable | | |