



Subject card

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| Subject name and code | DISRUPTIVE TECHNOLOGIES, PG_00061372 | | | | | | |
| Field of study | Engineering Management | | | | | | |
| Date of commencement of studies | October 2023 | | Academic year of realisation of subject | | 2025/2026 | | |
| Education level | first-cycle studies | | Subject group | | Optional subject group 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 | 3 | | Language of instruction | | Polish | | |
| Semester of study | 6 | | ECTS credits | | 4.0 | | |
| Learning profile | general academic profile | | Assessment form | | exam | | |
| Conducting unit | Department Of Informatics In Management -> Faculty Of Management And Economics -> Wydział Politechniki Gdańskiej | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Sławomir Ostrowski | | | | |
| | Teachers | | dr inż. Sławomir Ostrowski | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 0.0 | 30.0 | 0.0 | 0.0 | 45 |
| | 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 | 45 | | 7.0 | | 48.0 | 100 |
| Subject objectives | Analyzes various forms of disruptive technologies, assessing the impact of their key factors on economic success | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K6_K03] demonstrates the ability to think critically and analytically and integrates knowledge from many disciplines in order to make effective decisions | | demonstrates the ability to think creatively and analytically by comparing information from many different sources | | [SK5] Assessment of ability to solve problems that arise in practice | | |
| | [K6_U02] prepares and presents convincing, professional presentations of the results of its activities, with their advanced interpretation | | analyzes solutions adopted in disruptive technologies, identifying and interpreting key factors affecting their applications | | [SU3] Assessment of ability to use knowledge gained from the subject | | |
| Subject contents | Introduction to disruptive technologies (history and types) Presentation and discussion of different case studies of disruptive technologies: Smartphone, Blockchain, Sharing economy Introduction to Innovation Types of Innovation Disruptive Innovation Ecosystem Cases of disruptive technologies in different industries (GovTech (Smart Destination and Smart Cities), Fashion Technologies | | | | | | |
| Prerequisites and co-requisites | | | | | | | |
| Assessment methods and criteria | Subject passing criteria | | Passing threshold | | Percentage of the final grade | | |
| | Lab Case Analysis – prepare and present presentation | | 60.0% | | 20.0% | | |
| | Exam | | 60.0% | | 60.0% | | |
| | Group project | | 60.0% | | 20.0% | | |

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| Recommended reading | Basic literature | <p>Carlos M. DaSilva, Peter Trkman, Kevin Desouza & Jaka Lindič (2013). Disruptive technologies: a business model perspective on cloud computing, Technology Analysis & Strategic Management, 25:10, 1161-1173, DOI: 10.1080/09537325.2013.843661</p> <p>Coccia, Mario. (2017). Disruptive Technologies and Competitive Advantage of Firms in Dynamic Markets. SSRN Electronic Journal. 10.2139/ssrn.2960190</p> <p>M. Bublitz, F.; Oetomo, A.; S. Sahu, K.; Kuang, A.; X. Fadrique, L.; E. Velmovitsky, P.; M. Nobrega, R.; P. Morita, P. Disruptive Technologies for Environment and Health Research: An Overview of Artificial Intelligence, Blockchain, and Internet of Things. Int. J. Environ. Res. Public Health 2019, 16, 3847. https://doi.org/10.3390/</p> <p>Boer, Harry. (2001). Innovation, What Innovation? A Comparison between product, process and organizational innovation. International Journal of Technology Management - INT J TECHNOL MANAGE. 22. 83-107. 10.1504/IJTM.2001.002956</p> |
| | Supplementary literature | . |
| | eResources addresses | Adresy na platformie eNauczanie: |
| Example issues/ example questions/ tasks being completed | <p>Comprise analysis of cases on the application of disruptive technology in social, business or government context</p> <p>Students will work in a group of five to complete these lab exercises and develop a presentation on the results of their analyses</p> | |
| Work placement | Not applicable | |

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