# GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

| Subject name and code | Business Processes Modelling, PG_00037980 | | |
|---|---|---|---|
| Field of study | Management | | |
| Date of commencement of studies | February 2022 | Academic year of realisation of subject | 2021/2022 |
| Education level | second-cycle studies | Subject group | Obligatory subject group in the field of study<br>Subject group related to scientific research in the field of study |
| Mode of study | Part-time studies | Mode of delivery | blended-learning |
| Year of study | 1 | Language of instruction | Polish |
| Semester of study | 1 | ECTS credits | 2.0 |
| Learning profile | general academic profile | Assessment form | assessment |
| Conducting unit | Department of Management -> Faculty of Management and Economics | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | mgr inż. Łukasz Błądek | |
| | Teachers | mgr inż. Łukasz Błądek | |

| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|---|
| | Number of study hours | 0.0 | 0.0 | 16.0 | 0.0 | 0.0 | 16 |
| | E-learning hours included: 4.0 | | | | | | |
| | Adresy na platformie eNauczanie:<br>Modelowanie procesów biznesowych - niestacjonarne - Moodle ID: 16466<br>https://enauczanie.pg.edu.pl/moodle/course/view.php?id=16466 | | | | | | |

| 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 | 16 | 4.0 | 30.0 | 50 |

| Subject objectives | The aim is to acquire the practical skills to construct models of the processes using iGrafx Process software, simulation experiments, inference based on simulation results. |
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| Learning outcomes | Course outcome | Subject outcome | Method of verification |
|---|---|---|---|
| | [K7_W07] knows in depth selected methods and techniques of data acquisition, enabling analysis and modelling of structures and socio-economic relations, processes taking place and their impact on the implementation of objectives of the organization, including government administration, local government and non-profit organizations | Has knowledge of methods and tools for process modeling applied in business practice. | [SW1] Assessment of factual knowledge |
| | [K7_U02] analyses complex economic processes and phenomena using selected methods and techniques for analysing socio-economic data, and formulates their own opinions and conclusions concerning these processes and phenomena | Is able to apply iGrafx Process software for building process models, conduct simulation experiments and draw conclusions based on the results. | [SU1] Assessment of task fulfilment |

| Subject contents | Basic concepts and definitions, getting familiar with iGrafx Process, process mapping, basic symbols (events, activities, getways). Simulation components: schedules, generators, resources, activities, attributes, functions, decision getways, charts, scenarios and reports. Simulation environment settings, scenarios. Realization of tasks according to given parameters, simulating, analyzing results, optimizing the process. Examination task. |
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| Prerequisites and co-requisites | |
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| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|---|
| | Class exercise | 60.0% | 100.0% |

| Recommended reading | Basic literature | User manual of iGrafx Process, available on the Internet |
|---|---|---|
| | | Lab instructions published via http://moodle.zie.pg.gda.pl/ |
| | Supplementary literature | Grajewski P: Organizacja procesowa, PWE 2007 |
| | | Piotrowski M.: Notacja modelowania procesów biznesowych. Podstawy, BTC 2014 |
| | | Piotrowski M.: Procesy biznesowe w praktyce. Projektowanie, testowanie i optymalizacja, Helion 2013 |
| | eResources addresses | Modelowanie procesów biznesowych - niestacjonarne - Moodle ID: 16466 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=16466 |
| Example issues/ example questions/ tasks being completed | Build a simulation model of a process. Carry out a simulation experiment. Interpret the results and make improvements to the process. | |
| Work placement | Not applicable | |