GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

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|---|---|---|---|
| Subject name and code | BUSINESS PROCESSES MODELING, PG_00067661 | | |
| Field of study | Management | | |
| Date of commencement of studies | October 2025 | Academic year of realisation of subject | 2025/2026 |
| 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 | Full-time studies | Mode of delivery | at the university |
| 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 -> Wydziały Politechniki Gdańskiej | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | |
| | Teachers | | |

**Lesson types and methods of instruction**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 0.0 | 0.0 | 30.0 | 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 | 4.0 | 16.0 | 50 |

**Subject objectives**

Uses simulation methods to map the operation of the real process, critically interpreting the results obtained before using them in the decision-making process

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [K7_W02] understands the significance and interrelationships of key components describing economic processes, drawing on in-depth knowledge aligned with major developmental trends in scientific disciplines related to the field of studies. | has in-depth knowledge of the structure and interrelations of business processes, in line with current trends in management and economic sciences | [SW1] Assessment of factual knowledge |
| [K7_U02] presents logical and well-founded arguments regarding obtained results through the analysis and synthesis of information in various business contexts, critically evaluating their interpretation. | can analyze and model business processes, formulate logical conclusions, and present results in a well-reasoned and critical manner, appropriate to the business context | [SU2] Assessment of ability to analyse information<br>[SU1] Assessment of task fulfilment |

**Subject contents**

Basic concepts and definitions, familiarization with the iGrafx Process tool, creating a process map, basic symbols (events, activities, gates)
Simulation elements: schedules, generators, resources, tasks, attributes, functions, decision gates, freeze frames, charts, scenarios, reports
Simulation environment settings, scenarios
Implementation of the content of tasks in accordance with the set parameters, simulation, analysis of results, process optimization
Final task

**Prerequisites and co-requisites**

**Assessment methods and criteria**

| Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|
| Laboratory tasks | 60.0% | 100.0% |

**Recommended reading**

| | |
|---|---|
| Basic literature | Dokumentacja programu iGrafx Process, dostępna w Internecie |

| | | |
|---|---|---|
| | Supplementary literature | Drejewicz Sz.: Zrozumieć BPMN. Modelowanie procesów biznesowych. Wydanie 2 rozszerzone, Helion 2017<br><br>Grzesiak M.: Modelowanie procesów biznesowych z wykorzystaniem narzędzi iGrafx Process 2015, Wydawnictwo Politechniki Gdańskiej 2018<br>Piotrowski M.: Notacja modelowania procesów biznesowych. Podstawy, BTC 2014<br>Piotrowski M.: Procesy biznesowe w praktyce. Projektowanie, testowanie i optymalizacja, Helion 2013<br><br>Grajewski P: Organizacja procesowa, PWE 2007 |
| | eResources addresses | Adresy na platformie eNauczanie: |
| Example issues/ example questions/ tasks being completed | Build a simulation model of the proces<br>Carry out a simulation experiment<br>Interpret the results and make improvements to the proces | |
| Work placement | Not applicable | |

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