



Subject card

|   |  |   |  |            |   |         |     |
|---|--|---|--|------------|---|---------|-----|
| Subject name and code                       | BUSINESS PROCESSES ANALYSIS, PG_00066339   |   |  |            |   |         |     |
| Field of study                              | Economic Analytics   |   |  |            |   |         |     |
| Date of commencement of studies             | October 2024   | Academic year of realisation of subject   |  |            | 2025/2026   |         |     |
| Education level                             | second-cycle studies   | Subject group   |  |            | Optional subject group<br>Specialty subject group<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                               | 2  | Language of instruction   |  |            | Polish  |         |     |
| Semester of study                           | 3  | ECTS credits  |  |            | 4.0   |         |     |
| 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   | dr inż. Marzena Grzesiak  |  |            |   |         |     |
|   | Teachers   | dr inż. Marzena Grzesiak  |  |            |   |         |     |
| 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  | 4.0  | 51.0       | 100   |         |     |
| Subject objectives                          | Identifies and models business processes based on reliable data, selecting their degree of complexity in accordance with the purpose of the study  |   |  |            |   |         |     |
| Learning outcomes                           | Course outcome   | Subject outcome   | Method of verification   |            |   |         |     |
|   | [K7_W04] Describes and explains complex analytical problems using in-depth knowledge of analytical methods and reliable data, providing answers to fundamental dilemmas of the modern economy.   | analyzes complex processes in an in-depth way, creating the structure of a simulation model and conducting an experiment confirming the logic of the solution | [SW1] Assessment of factual knowledge                                |            |   |         |     |
|   | [K7_K02] Makes competent and ethical decisions, safeguarding the public interest and maintaining economic, social, and environmental values  | makes competent decisions on the selection of the scenario using organizational and economic criteria   | [SK5] Assessment of ability to solve problems that arise in practice |            |   |         |     |
| Subject contents                            | <p><b>LECTURE</b><br/> Strategies for implementing changes towards the dynamics of processes in the organization<br/> Competing based on analytics in internal and external processes<br/> Building analytical competencies<br/> Managing the growth of process maturity<br/> Process approach implementation methodology<br/> Process architecture - APQC PCF<br/> SIPOC model. BPMN notation - advanced modeling<br/> Handling unusual situations - advanced aspects of events<br/> Construction of process maps<br/> Building process architecture<br/> Advanced tag properties<br/> Artifacts. Collaboration diagram - case study<br/> Choreography diagram - case study<br/> Conversation diagram - case study.</p> <p><b>LABORATORY</b><br/> Creative observation of reality in order to identify processes in which the student is a stakeholder, contractor or owner<br/> Independent construction of a simulation model using iGrafx and BPMN notation, based on acquired skills<br/> Conducting simulations, tests and analyzes to optimize the process<br/> Making a description of the process. Defending the completed task</p> |   |  |            |   |         |     |

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| Prerequisites and co-requisites                                |  |   |                               |
| Assessment methods and criteria                                | Subject passing criteria   | Passing threshold   | Percentage of the final grade |
|  | Test   | 56.0%   | 50.0%                         |
|  | Project  | 56.0%   | 50.0%                         |
| Recommended reading  | Basic literature   | Auksztol J., Chomuszko M. (red.): Modelowanie organizacji procesowej, PWN, Warszawa 2012<br>Davenport T.H., Harris J.G.: Inteligencja analityczna w biznesie, MT Biznes, Warszawa 2013<br>Gawin B., Marcinkowski B.: Symulacja procesów biznesowych. Standardy BPMS i BPMN w praktyce, Helion 2013<br>Piotrowski M.: Procesy biznesowe w praktyce. Projektowanie, testowanie i optymalizacja, Helion 2013 |                               |
|  | Supplementary literature   | Bitkowska A.: Zarządzanie procesowe we współczesnych organizacjach, DIFIN, Warszawa 2013<br>Drejewicz Sz.: Zrozumieć BPMN. Modelowanie procesów biznesowych, Helion 2012<br>Piotrowski M.: Notacja modelowania procesów biznesowych. Podstawy, Wydawnictwo BTC 2014   |                               |
|  | eResources addresses   | Adresy na platformie eNauczanie:  |                               |
| Example issues/<br>example questions/<br>tasks being completed | Discuss the differences between a process map and a process model<br>Discuss win-win strategies for managing process maturity growth<br>List typical internal processes where analytics is used. How can organizations build their competitive position based on analytics in these processes?<br>Discuss the SIPOC model used in the implementation of the process approach in the organization |   |                               |
| Work placement   | Not applicable   |   |                               |

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