



## Subject card

|  |  |   |                            |                                     |  |            |     |
|--|--|---|----------------------------|-------------------------------------|--|------------|-----|
| Subject name and code  | Processes Modelling Methods, PG_00044440   |   |                            |                                     |  |            |     |
| Field of study   | Engineering Management   |   |                            |                                     |  |            |     |
| Date of commencement of studies  | October 2020   | Academic year of realisation of subject   |                            |                                     | 2022/2023  |            |     |
| Education level  | first-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  |                            |                                     | at the university  |            |     |
| Year of study  | 3  | Language of instruction   |                            |                                     | Polish   |            |     |
| Semester of study  | 5  | ECTS credits  |                            |                                     | 3.0  |            |     |
| Learning profile   | general academic profile   | Assessment form   |                            |                                     | exam   |            |     |
| Conducting unit  | Faculty of Management and Economics  |   |                            |                                     |  |            |     |
| Name and surname of lecturer (lecturers)   | Subject supervisor   |   | dr inż. Grzegorz Zieliński |                                     |  |            |     |
|  | Teachers   |   | dr inż. Grzegorz Zieliński |                                     |  |            |     |
| Lesson types and methods of instruction  | Lesson type  | Lecture   | Tutorial                   | Laboratory                          | Project  | Seminar    | SUM |
|  | Number of study hours  | 16.0  | 0.0                        | 0.0                                 | 0.0  | 0.0        | 16  |
|  | E-learning hours included: 0.0   |   |                            |                                     |  |            |     |
| Metody modelowania procesów - zaoczne - ZIMA 2022/2023 sem V - Moodle ID: 26827<br><a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26827">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26827</a> |  |   |                            |                                     |  |            |     |
| 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  |                            | 6.0                                 |  | 53.0       | 75  |
| Subject objectives   | The aim of the course is to present selected forms of management and process modeling  |   |                            |                                     |  |            |     |
| Learning outcomes  | Course outcome   | Subject outcome   |                            |                                     | Method of verification   |            |     |
|  | [K6_U04] forecasts phenomena and processes in the organisation, including technical and innovative processes   | has basic knowledge in the field of forecasting processes, including technical and innovative ones                          |                            |                                     | [SU1] Assessment of task fulfilment<br>[SU2] Assessment of ability to analyse information                            |            |     |
|  | [K6_W13] has a basic knowledge of the design, modelling and optimisation of technical processes and systems  | has basic knowledge in the field of design, modeling and optimization of processes  |                            |                                     | [SW3] Assessment of knowledge contained in written work and projects   |            |     |
|  | [K6_U08] analyses engineering and managerial solutions in decision-making processes, taking into account pro-quality and pro-environmental aspects, as well as safety of work processes  | analyzes engineering and managerial solutions in decision making processes, including aspects focused on process management |                            |                                     | [SU3] Assessment of ability to use knowledge gained from the subject   |            |     |
| Subject contents   | <ul style="list-style-type: none"><li>- basics of modeling</li><li>- model classifications</li><li>- static and dynamic models</li><li>- review of process modeling methods</li><li>- notations in process modeling</li><li>- KPIs as process success factors</li><li>- BPMN in process modeling</li></ul> |   |                            |                                     |  |            |     |
| Prerequisites and co-requisites  |  |   |                            |                                     |  |            |     |
| Assessment methods and criteria  | Subject passing criteria   |   | Passing threshold          |                                     | Percentage of the final grade  |            |     |
|  | writing paper  |   | 60.0%                      |                                     | 100.0%   |            |     |

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| Recommended reading  | Basic literature   | Drejewicz S. Zrozumieć BPMN. Modelowanie procesów biznesowych, Wyd. Helion, Gliwice 2011<br><br>Grajewski P. Procesowe zarządzanie organizacją, Wyd PWE Warszawa 2012 |
|  | Supplementary literature   | Szczepańska K., Bugdol M., Podstawy zarządzania procesami, Wyd Difin, Warszawa 2016   |
|  | eResources addresses   |   |
| Example issues/<br>example questions/<br>tasks being completed | Identification, analysis, modeling and improvement of the selected process |   |
| Work placement   | Not applicable   |   |