



## Subject card

|                                                                |                                                                                                                                                                                                                                                                                 |                                                          |                                                                                                                                                                   |                                     |                                                            |            |     |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------------|------------|-----|
| Subject name and code                                          | PROCESS MODELING METHODS, PG_00061364                                                                                                                                                                                                                                           |                                                          |                                                                                                                                                                   |                                     |                                                            |            |     |
| Field of study                                                 | Engineering Management                                                                                                                                                                                                                                                          |                                                          |                                                                                                                                                                   |                                     |                                                            |            |     |
| Date of commencement of studies                                | October 2024                                                                                                                                                                                                                                                                    |                                                          | Academic year of realisation of subject                                                                                                                           |                                     | 2025/2026                                                  |            |     |
| Education level                                                | first-cycle studies                                                                                                                                                                                                                                                             |                                                          | Subject group                                                                                                                                                     |                                     | Optional subject group                                     |            |     |
| 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                                                                                                                                                      |                                     | 3.0                                                        |            |     |
| Learning profile                                               | general academic profile                                                                                                                                                                                                                                                        |                                                          | Assessment form                                                                                                                                                   |                                     | assessment                                                 |            |     |
| Conducting unit                                                | Department Of Management Engineering And Quality -> Faculty Of Management And Economics -> Wydział Politechniki Gdańskiej                                                                                                                                                       |                                                          |                                                                                                                                                                   |                                     |                                                            |            |     |
| Name and surname of lecturer (lecturers)                       | Subject supervisor                                                                                                                                                                                                                                                              |                                                          | dr inż. Grzegorz Zieliński                                                                                                                                        |                                     |                                                            |            |     |
|                                                                | Teachers                                                                                                                                                                                                                                                                        |                                                          |                                                                                                                                                                   |                                     |                                                            |            |     |
| Lesson types and methods of instruction                        | Lesson type                                                                                                                                                                                                                                                                     | Lecture                                                  | Tutorial                                                                                                                                                          | Laboratory                          | Project                                                    | Seminar    | SUM |
|                                                                | Number of study hours                                                                                                                                                                                                                                                           | 30.0                                                     | 0.0                                                                                                                                                               | 0.0                                 | 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                                                       |                                                                                                                                                                   | 5.0                                 |                                                            | 40.0       | 75  |
| Subject objectives                                             | Analyzes engineering and managerial solutions in decision-making processes, taking into account aspects focused on process management                                                                                                                                           |                                                          |                                                                                                                                                                   |                                     |                                                            |            |     |
| Learning outcomes                                              | Course outcome                                                                                                                                                                                                                                                                  |                                                          | Subject outcome                                                                                                                                                   |                                     | Method of verification                                     |            |     |
|                                                                | [K6_U02] prepares and presents convincing, professional presentations of the results of its activities, with their advanced interpretation                                                                                                                                      |                                                          | presents the results of analyzes in a convincing way, making an advanced interpretation of the proposed solutions                                                 |                                     | [SU5] Assessment of ability to present the results of task |            |     |
|                                                                | [K6_W03] identifies reliable sources of information relevant to the analyzed issues                                                                                                                                                                                             |                                                          | obtains reliable information about the examined processes, enabling their evaluation and improvement                                                              |                                     | [SW1] Assessment of factual knowledge                      |            |     |
| Subject contents                                               | Basics of modeling<br>Model classifications<br>Static and dynamic models<br>Review of process modeling methods<br>Notations in process modeling<br>KPIs as process success factors<br>BPMN in process modeling<br>Manager dashboards in the visualization of process management |                                                          |                                                                                                                                                                   |                                     |                                                            |            |     |
| Prerequisites and co-requisites                                |                                                                                                                                                                                                                                                                                 |                                                          |                                                                                                                                                                   |                                     |                                                            |            |     |
| Assessment methods and criteria                                | Subject passing criteria                                                                                                                                                                                                                                                        |                                                          | Passing threshold                                                                                                                                                 |                                     | Percentage of the final grade                              |            |     |
|                                                                | Written elaboration                                                                                                                                                                                                                                                             |                                                          | 60.0%                                                                                                                                                             |                                     | 100.0%                                                     |            |     |
| Recommended reading                                            | Basic literature                                                                                                                                                                                                                                                                |                                                          | Drejewicz S. Zrozumieć BPMN. Modelowanie procesów biznesowych, Wyd. Helion, Gliwice 2011<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                                                                                                                                                                                                                                                            |                                                          | Adresy na platformie eNauczanie:                                                                                                                                  |                                     |                                                            |            |     |
| Example issues/<br>example questions/<br>tasks being completed | Identification, analysis, modeling and improvement of the selected process                                                                                                                                                                                                      |                                                          |                                                                                                                                                                   |                                     |                                                            |            |     |
| Work placement                                                 | Not applicable                                                                                                                                                                                                                                                                  |                                                          |                                                                                                                                                                   |                                     |                                                            |            |     |

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