

Subject card

| Subject name and code | Business Proces Management, PG_00068039 | | | | | | | |
|---|--|--|---|------------|----------------|--|-----------------|-----|
| Field of study | | | | | | | | |
| Date of commencement of studies | October 2025 | | Academic year of realisation of subject | | | 2027/2028 | | |
| Education level | first-cycle studies Subject gr | | Subject group | | | Obligatory subject group in the field of study | | |
| | | | | | | 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 | 3 | | Language of instruction | | | Polish | | |
| Semester of study | 5 | | ECTS credits | | | 6.0 | | |
| Learning profile | general academic profile | | Assessment form | | | exam | | |
| Conducting unit | Department Of Manag | rtment Of Management -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej | | | | | nniki Gdańskiej | |
| Name and surname | Subject supervisor | | | | | | | |
| of lecturer (lecturers) | Teachers | | | | | | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM |
| of instruction | Number of study hours | 30.0 | 0.0 | 45.0 | 0.0 | | 0.0 | 75 |
| E-learning hours included: 0.0 | | | | | | | | |
| Learning activity and number of study hours | Learning activity Participation in classes include plan | | | | Self-study SUM | | | |
| | Number of study hours | 75 | | 5.0 | | 70.0 | | 150 |
| Subject objectives | Analyzes organization processes using the simulation modeling methodology, creating models and using simulation results to improve processes | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | |
| | [K6_K03] is prepared to critically assess the knowledge they possess, which is necessary for solving cognitive and practical problems, and to supplement any gaps with opinions from external experts. | | critically reviews the assumptions and outcomes of simulation models and, when necessary, seeks expert input or external knowledge to refine problemsolving approaches | | | [SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice | | |
| | [K6_U01] is able to analyze and evaluate complex processes in terms of their improvement, using various methods, including analytical and simulation techniques. | | is able to develop models reflecting real-world processes and use them to identify areas for improvement, applying suitable analytical and simulation tools. | | | [SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools | | |
| | various sources and in the methods that enable a comprehensive analysis of | | is familiar with approaches and techniques for integrating diverse data types to model and understand complex phenomena in organizational and decision- making processes | | | [SW3] Assessment of knowledge contained in written work and projects | | |

| Subject contents | Introduction to the subject Defining basic concepts, queuing systems, models General characteristics of the process approach in the organization Simulation model structure (static and dynamic) Principles of building a process map Introduction to iGrafx Structure: department, activity, resources, costs, transaction generator, schedules Rules for assigning properties to activities: inputs, outputs, task, resources, attributes Task definition (task type, duration, schedule, capacity) Defining inputs to activities (starting point, collecting transactions at input) Transaction generators, types and ways of defining Resources, definition (classification, costs, schedule, overtime, costs, availability, attributes), assignment to tasks (type, origin, assignment method, constraint, waiting options, affinity) Tasks, types (work, delay, subprocess, concurrent process), costs (value class), overtime performance Attributes, defining (location, type, value, name), determining the value Defining decision-making activities Defining the simulation environment Scenario building rules Running a simulation experiment Analysis of the results. Implementation based on the model description of a simple queuing system Implementation of an individual project of a complex queuing system | | | | | | |
|--|--|---|-------------------------------|--|--|--|--|
| Prerequisites and co-requisites | | | | | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade | | | | |
| | Practical exercises | 50.0% | 50.0% | | | | |
| | Exam | 50.0% | 50.0% | | | | |
| Recommended reading | Basic literature | Filipowicz B.: Modele stochastyczne w badaniach operacyjnych. WN Warszawa 1996 Grajewski P.: Organizacja procesowa, PWE, Warszawa 2007 Mielczarek B.: Modelowanie symulacyjne w zarządzaniu. Oficyna Wydawnicza Politechniki Wrocławskiej, Wrocław 2009 Dokumentacja programu iGrafx Process 2013, dostępna w Interneci | | | | | |
| | Supplementary literature | Adair C.B., Murray B.A.: Radykalna reorganizacja firmy. Wydawnictwo Naukowe PWN, Warszawa 2002 Champy J.: X-engineering przedsiębiorstwa. Wydawnictwo Placet, Warszawa 2003 Hammer M.: Reinżynieria i jej następstwa. Wydawnictwo Naukowe PWN, Warszawa 1999 Tyszer J., Symulacja cyfrowa, WNT, Warszawa 1978 | | | | | |
| | eResources addresses Adresy na platformie eNauczanie: | | | | | | |
| Example issues/ example questions/ tasks being completed | Build a simulation model of the selected proces Carry out a simulation experiment Interpret the results and make improvements to the proces | | | | | | |
| Work placement | Not applicable | | | | | | |

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