



## Subject card

|   |  |   |  |            |  |  |     |
|---|--|---|--|------------|--|--|-----|
| Subject name and code                       | IT Technologies in Management of Teams, PG_00037942  |   |  |            |  |  |     |
| Field of study                              | Management, Management   |   |  |            |  |  |     |
| Date of commencement of studies             | February 2023  | Academic year of realisation of subject   |  |            |  | 2023/2024  |     |
| Education level                             | second-cycle studies   | Subject group   |  |            |  | Optional 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                               | 1  | Language of instruction   |  |            |  | Polish   |     |
| Semester of study                           | 2  | ECTS credits  |  |            |  | 3.0  |     |
| Learning profile                            | general academic profile   | Assessment form   |  |            |  | assessment   |     |
| Conducting unit                             | Department of Informatics in Management -> Faculty of Management and Economics   |   |  |            |  |  |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor   |   |  |            |  |  |     |
|   | Teachers   |   | dr inż. Magdalena Ciesielska<br>prof. dr hab. inż. Marcin Sikorski |            |  |  |     |
| 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  | 6.0  |            | 24.0   |  | 75  |
| Subject objectives                          | Presenting knowledge, modelling techniques and operation of selected CASE tools supporting software development process in IT projects.  |   |  |            |  |  |     |
| Learning outcomes                           | Course outcome   | Subject outcome   |  |            | Method of verification   |  |     |
|   | [K7_U02] analyses complex economic processes and phenomena using selected methods and techniques for analysing socio-economic data, and formulates their own opinions and conclusions concerning these processes and phenomena | Student has a skill how to use selected modelling techniques and tools for design and development of IT solutions in IT projects. |  |            | [SU1] Assessment of task fulfilment                                      |  |     |
|   | [K7_K01] understands the need to update knowledge and self-improvement   | Student knows how to follow latest achievements and trends in design and development of IT solutions.                             |  |            | [SK4] Assessment of communication skills, including language correctness |  |     |
|   | [K7_W02] has an in-depth knowledge of classical and modern management concepts and their application in the management of modern organizations of various types  | Student has a knowledge about modelling, desing and management useful in IT projects.   |  |            | [SW1] Assessment of factual knowledge                                    |  |     |
|   | [K7_K02] interacts by taking on roles in the group that are conducive to maximising the effects of teamwork, including social relations  | Student is able to work in a team engaged in IT-project realated tasks.   |  |            | [SK3] Assessment of ability to organize work                             |  |     |

| Subject contents   | <p>1. IT project (IT projects environment, specific characteristics of IT projects and IT teams)</p> <p>2. The life cycle of an IT system.</p> <p>3. Software lifecycle and development (waterfall model, iterative models - spiral, prototyping, visionary, model V, agile methodologies).</p> <p>4. CASE tools supporting selected phases of software development (database tools, modeling tools, analysis tools, construction of information flows and data dictionary, prototyping tools, construction tools of structural schemes, tools, documentation, code generators).</p>                       |   |  |                          |                   |                               |              |       |       |            |       |       |
|--|--|---|--|--------------------------|-------------------|-------------------------------|--------------|-------|-------|------------|-------|-------|
| Prerequisites and co-requisites                                | none   |   |  |                          |                   |                               |              |       |       |            |       |       |
| Assessment methods and criteria                                | <table border="1" data-bbox="450 784 1489 884"> <thead> <tr> <th data-bbox="450 784 794 817">Subject passing criteria</th> <th data-bbox="794 784 1139 817">Passing threshold</th> <th data-bbox="1139 784 1489 817">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="450 817 794 846">written exam</td> <td data-bbox="794 817 1139 846">60.0%</td> <td data-bbox="1139 817 1489 846">50.0%</td> </tr> <tr> <td data-bbox="450 846 794 884">laboratory</td> <td data-bbox="794 846 1139 884">60.0%</td> <td data-bbox="1139 846 1489 884">50.0%</td> </tr> </tbody> </table> |   |  | Subject passing criteria | Passing threshold | Percentage of the final grade | written exam | 60.0% | 50.0% | laboratory | 60.0% | 50.0% |
| Subject passing criteria                                       | Passing threshold  | Percentage of the final grade   |  |                          |                   |                               |              |       |       |            |       |       |
| written exam   | 60.0%  | 50.0%   |  |                          |                   |                               |              |       |       |            |       |       |
| laboratory   | 60.0%  | 50.0%   |  |                          |                   |                               |              |       |       |            |       |       |
| Recommended reading  | <p>Basic literature</p> <p>Supplementary literature</p> <p>eResources addresses</p>  | <ol style="list-style-type: none"> <li>1. Jayaswal B.K., Patton P.C. (2008). <u>Oprogramowanie godne zaufania</u>. Wyd. Helion.</li> <li>2. Sikorski M. (2010). <u>Interakcja człowiek-komputer</u>. Wyd. PJWSTK Warszawa</li> <li>3. Kisielnicki J., Sroka H.: <u>Systemy informacyjne biznesu</u>, Wyd. III, Placet. Warszawa, 2005.</li> <li>4. Nowicki A.: <u>Strategia doskonalenia systemu informacyjnego w zarządzaniu przedsiębiorstwem</u>. Wydawnictwo Akademii Ekonomicznej, Wrocław, 1999.</li> </ol> <p>--</p> |  |                          |                   |                               |              |       |       |            |       |       |
| Example issues/<br>example questions/<br>tasks being completed | <p>Main model of software (IT system) lifecycle.</p> <p>Principles of UML modelling.</p> <p>Methods of quality assurance for IT product.</p> <p>Principles of user-system interaction design.</p>  |   |  |                          |                   |                               |              |       |       |            |       |       |
| Work placement   | Not applicable   |   |  |                          |                   |                               |              |       |       |            |       |       |