



Subject card

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|---|--|--|---|------------|--|---------|-----|
| Subject name and code | Applications of AI methods in enterprise, PG_00045376 | | | | | | |
| Field of study | Data Engineering | | | | | | |
| Date of commencement of studies | October 2023 | Academic year of realisation of subject | | | 2026/2027 | | |
| Education level | first-cycle studies | Subject group | | | Optional subject group 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 | 4 | Language of instruction | | | English | | |
| Semester of study | 7 | ECTS credits | | | 4.0 | | |
| Learning profile | general academic profile | Assessment form | | | exam | | |
| Conducting unit | Department of Informatics In Management -> Faculty of Management and Economics -> Faculties of Gdańsk University of Technology | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Jakub Chabik | | | | |
| | Teachers | | dr inż. Jakub Chabik | | | | |
| Lesson types | 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 | The aim of the course is to acquaint students with the possible applications of artificial intelligence in the enterprise | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K6_K03] Knows how to cooperate or work in a project team and take managerial or executive functions. | | Student is able to collaborate or work in the project team and takes managerial or executive. | | [SK1] Assessment of group work skills | | |
| | [K6_U01] programs in procedural, object, functional and logic programming languages, codes programs at the processor instruction level, runs and tests programs. | | The student is able to create technological and business solutions using artificial intelligence | | [SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools | | |
| | [K6_W06] Knows the criteria and concepts of artificial intelligence, understands the operation of algorithms for intelligent computing, the concept of descriptive logic, combinatorial optimization algorithms, methods of construction, analysis and evaluation of algorithms, including discrete ones and problems of resolving conflicts in non-algorithmic decision making. | | Student potrafi analizować i oceniać procesy biznesowe pod kątem możliwości zastosowania sztucznej inteligencji, stosując metody i techniki analityczne do projektowania oraz oceny rozwiązań wspierających podejmowanie decyzji w przedsiębiorstwie. | | [SW3] Assessment of knowledge contained in written work and projects | | |

| Subject contents | <p>Course content – lecture</p> <ol style="list-style-type: none"> 1.What is AI? Why is it important to apply AI in enterprise? 2.AI state of the art and its prospects 3.Delivering value. Business models and their applicability with AI. 4.Data sources. Importance of data quality. Data bias and limitations of data. 5.AI governance and roadmapping. 6.Financing innovative startups. 7.Building smart, innovative enterprise. <hr/> <p>Course content – laboratory</p> <p>Building concept of innovative, AI-driven enterprise Desinging business model canvas Designing architecture Prepareing business case Public presentation and defense</p> | | | | | | | | | | | |
|--|---|-------------------------------|--|--------------------------|---|-------------------------------|--------------------------|--|-------|----------------------|-------|-------|
| Prerequisites and co-requisites | No requirements | | | | | | | | | | | |
| Assessment methods and criteria | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Subject passing criteria</th> <th style="width: 33%;">Passing threshold</th> <th style="width: 33%;">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>Reports</td> <td>60.0%</td> <td>50.0%</td> </tr> <tr> <td>Exam</td> <td>60.0%</td> <td>50.0%</td> </tr> </tbody> </table> | | | Subject passing criteria | Passing threshold | Percentage of the final grade | Reports | 60.0% | 50.0% | Exam | 60.0% | 50.0% |
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| Reports | 60.0% | 50.0% | | | | | | | | | | |
| Exam | 60.0% | 50.0% | | | | | | | | | | |
| Recommended reading | <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 33%;">Basic literature</td> <td colspan="2" data-bbox="799 1055 1487 1182"> Marek Tłuczek, "Jak sztuczna inteligencja zmieni twoje życie", Helion2024 Feliks Kurp, "Sztuczna inteligencja od podstaw", Helion 2024 Yuval Noah Harari, "Nexus. A Brief History of Information Networks from the Stone Age to AI", Sandycove 2024 </td> </tr> <tr> <td>Supplementary literature</td> <td colspan="2" data-bbox="799 1189 1487 1263"> Ethan Mollick, "Co-Intelligence: Living and Working with AI", Ebury 2024 Aleksandra Przegalińska, Tanilla Trantioro "Przenikanie umysłów", Wyd. Campus AI </td> </tr> <tr> <td>eResources addresses</td> <td colspan="2" data-bbox="799 1270 1487 1294"></td> </tr> </tbody> </table> | | | Basic literature | Marek Tłuczek, "Jak sztuczna inteligencja zmieni twoje życie", Helion2024 Feliks Kurp, "Sztuczna inteligencja od podstaw", Helion 2024 Yuval Noah Harari, "Nexus. A Brief History of Information Networks from the Stone Age to AI", Sandycove 2024 | | Supplementary literature | Ethan Mollick, "Co-Intelligence: Living and Working with AI", Ebury 2024 Aleksandra Przegalińska, Tanilla Trantioro "Przenikanie umysłów", Wyd. Campus AI | | eResources addresses | | |
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| Example issues/ example questions/ tasks being completed | <p>Proposing an AI-based business model</p> <ul style="list-style-type: none"> - Creating a financial plan - Developing competitive advantages - Defining data management - Final presentation | | | | | | | | | | | |
| Practical activites within the subject | Not applicable | | | | | | | | | | | |

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