

Subject card

| Subject name and code | Data quality assurance, PG_00053008 | | | | | | | | |
|---|--|--|---|-------------------------------------|-------------------------------------|--|---------------|--------|--|
| Field of study | Data Engineering | | | | | | | | |
| 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 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 | 6 | | ECTS credits | | | 3.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | | |
| Conducting unit | Department of Softwa | Department of Software Engineering -> Faculty of Electronics, Telecommunications and Informatics | | | | | | natics | |
| Name and surname | Subject supervisor | dr inż. Andrzej Wardziński | | | | | | | |
| of lecturer (lecturers) | Teachers | | dr inż. Andrzej Wardziński | | | | | | |
| | | | dr Paweł Wei | | | | | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | Laboratory | Project | t | Seminar | SUM | |
| of instruction | Number of study hours | 15.0 | 0.0 | 0.0 | 15.0 | | 0.0 | 30 | |
| | E-learning hours included: 0.0 | | | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in classes include plan | | Participation in consultation hours | | Self-study SUM | | SUM | |
| | Number of study hours | 30 | | 6.0 | | 39.0 | | 75 | |
| Subject objectives | The aim of the course is introduction to aspects of data quality in computer systems and the organization of programs to improve the quality of data | | | | | | ganization of | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | |
| | [K6_W16] Knows the quality attributes of data in information systems and the principles of data management and usage that ensure the level of data quality required for specific applications | | | | | [SW1] Assessment of factual knowledge | | | |
| | [K6_U02] designs, analyses correctness and creates functional specification of IT systems, selects appropriate measures, creates quality models, prepares and assesses their design documentation. | | The student is able to define the objectives and scope of the project to improve the quality of data. Student can define the actions to improve data quality and its verification | | [SU1] Assessment of task fulfilment | | | | |
| Subject contents | LECTURES: Introduction. The concept of data quality. The attributes of data quality and data business value. Data quality in the data lifecycle. Evaluation and verification of data quality. Data quality improvement programs. PROJECT: Development of the data quality evaluation and improvement program for an exemplary system and execution of the elements of the plan. | | | | | | | | |
| Prerequisites and co-requisites | Completion of the course: Databases | | | | | | | | |

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| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | | | |
|--|--|---|-------------------------------|--|--|--|
| and criteria | Theory | 50.0% | 50.0% | | | |
| | Project | 50.0% | 50.0% | | | |
| Recommended reading | Basic literature 1. Arkady Maydanchik, Data Quality Assessment, Technics Publications, 2007 | | | | | |
| | | 2. Danette McGilvray, Executing Data Quality Projects, Elsevier, 2008 | | | | |
| | Supplementary literature | ISO/IEC 25012, Software product Quality Requirements and Evaluation (SQuaRE) – Data quality model | | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | | | |
| | | Data quality assurance - 2023 - Mo https://enauczanie.pg.edu.pl/moodl | | | | |
| Example issues/ example questions/ tasks being completed | Sample issues: | | | | | |
| | - How do you measure the quality of data? | | | | | |
| | - What types of activities you can do in order to improve the data quality? | | | | | |
| | - What are the typical data quality problems during data migration and integration? | | | | | |
| | - What databases mechanisms can be used to ensure data quality? | | | | | |
| Work placement | Not applicable | | | | | |

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