

Subject card

| Subject name and code | Data quality assurance, PG_00053008 | | | | | | | |
|---|--|--|---|-------------------------------------|--------|---|---------|-----|
| Field of study | Data Engineering | | | | | | | |
| Date of commencement of studies | October 2025 | | Academic year of realisation of subject | | | 2027/2028 | | |
| 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 Software Engineering -> Faculty Of Electronics Telecommunications And Informatics -> Wydziały Politechniki Gdańskiej | | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr Paweł Wei | | | | | |
| | Teachers | dr Paweł Wei | dr Paweł Weichbroth | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM |
| | 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 didactic classes included in study plan | | Participation in consultation hours | | Self-study | | 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 | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | |
| | [K6_W03] identifies veracious sources of information relevant to the analyzed issues | | Students is able to define the objectives and scope of a data quality improvement project data. The student is able to identify the activities data quality improvement and their verification. | | | [SW3] Assessment of knowledge contained in written work and projects | | |
| | [K6_U02] prepares and presents convincingly professional presentations of the results of undertaken activities, with their advanced interpretation | | Students is able to identify attributes and data quality metrics for practical applications. The student is able to identify and plan actions to ensure data quality in the system life cycle. | | | [SU1] Assessment of task fulfilment | | |
| | [K6_K01] demonstrates awareness of legal, ethical and cultural diversity issues, making socially responsible decisions | | The student is able to identify and anonymise personal or sensitive data. The student is able to identify and delete, if necessary, data that violates the dignity of another person. | | | [SK5] Assessment of ability to solve problems that arise in practice | | |
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| 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 | | | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade | | | |
| | 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: | | | | |
| 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 | Not applicable | | | | |

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