

Subject card

| Subject name and code | Practical aspects of scientific research, PG_00045753 | | | | | | | | |
|---|---|--|---|-------------------------------------|--------|-------------------|------------|-----|--|
| Field of study | Geodesy and Cartography | | | | | | | | |
| Date of commencement of studies | February 2024 | | Academic year of realisation of subject | | | 2024/2025 | | | |
| Education level | second-cycle studies | | Subject group | | | | | | |
| 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 | | | asses | assessment | | |
| Conducting unit | Katedra Wytrzymałości Materiałów -> Faculty of Civil and Environmental Engineering | | | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Łukasz Pyrzowski | | | | | | |
| | Teachers | | dr inż. Łukas | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM | |
| | Number of study hours | 30.0 | 15.0 | 0.0 | 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 | | 8.0 | | 22.0 | | 75 | |
| Subject objectives | Gaining knowledge about research methods used in technical sciences and in an educational practice of the Faculty. Acquisition of skills in conducting scientific discussion. Acquisition of ability to search and combine information from various studies available in Polish and global resources. Acquisition of skills to conduct quantitative and qualitative research in the field of geodesy and cartography as well as civil engineering. | | | | | | | | |

Data wygenerowania: 22.11.2024 07:21 Strona 1 z 3

| Learning outcomes | Course outcome | Subject outcome | Method of verification | | | | | |
|--|---|--|--|--|--|--|--|--|
| | [K7_U12] can use numerical methods to solve complex engineering tasks, performs numerical calculations, using MES or Matlab; use the selected software for programming the artificial neural networks | A student has skills to analyze results of numerical analysis: he develops and transforms quantitative and qualitative data using specialized software, interprets results of analysis in accordance with the principles of statistical inference, draws conclusions in a substantive legitimate manner. | [SU1] Assessment of task fulfilment | | | | | |
| | [K7_W15] has the knowledge in soil testing and geotechnical monitoring with particular emphasis on measurement methods | A student has knowledge about methods of soil testing and geotechnical monitoring. | [SW1] Assessment of factual knowledge | | | | | |
| | [K7_U14] can plan and interpret the results of geotechnical studies, including research capacity, settlement and displacement of foundations, the ground and resistance structural framework | A student has skills to plan and interpret geotechnical research. | [SU2] Assessment of ability to analyse information | | | | | |
| | [K7_U13] knows how to correctly define basic calculation models used in the computer calculation | A student has ability to cooperate, communicate and conduct scientific discourse in the formulation of research problems, choosing the correct calculation model, discussing obtained results and formulating conclusions. | [SU1] Assessment of task fulfilment | | | | | |
| Subject contents | bject contents Research methods and methodologies. Use of data resource. | | | | | | | |
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| | Data archives in Poland and in the world. Data Access Policy. Consultation on the methodology of writing a scientific article. Research diagrams. Consultations regarding the use of data. | | | | | | | |
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| | Consultations for performing numerical analysis. Interpretation of analysis results. | | | | | | | |
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| Prerequisites and co-requisites | | | | | | | | |
| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | | | | | |
| and criteria | Casjoot passing criteria | 60.0% | 10.0% | | | | | |
| | | 60.0% | 50.0% | | | | | |
| | | 80.0% | 40.0% | | | | | |
| Recommended reading | Basic literature Creswell J.: Qualitative, Quantitative, and Mixed Methods Approaches, SAGE Publications, Inc; Fifth edition, 2018 | | | | | | | |
| | Supplementary literature Węglińska M.: Jak pisać pracę magisterską. Poradnik dla studentów., Wyd. Impuls Kraków 2016. | | | | | | | |
| | eResources addresses Adresy na platformie eNauczanie: Praktyczne aspekty badań naukowych - ra 2024/2025 - Moodle ID: 41074 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=41074 | | | | | | | |
| Example issues/ example questions/ tasks being completed | Development of a design/research issue using numerical modeling techniques. | | | | | | | |
| Work placement | Not applicable | | | | | | | |
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Data wygenerowania: 22.11.2024 07:21 Strona 2 z 3

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Data wygenerowania: 22.11.2024 07:21 Strona 3 z 3