

Subject card

| Subject name and code | Module on the specificity of the faculty research, PG_00045748 | | | | | | | | |
|---|--|--|---|-------------------------------------|--------|-------------------|------------|-----|--|
| Field of study | Geodesy and Cartography | | | | | | | | |
| Date of commencement of studies | February 2023 | | Academic year of realisation of subject | | | 2022/2023 | | | |
| 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 | 1 | | ECTS credits | | | 3.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | asses | assessment | | |
| Conducting unit | Department of Geodesy -> Faculty of Civil and Environmental Engineering | | | | | | | | |
| Name and surname | Subject supervisor | | prof. dr hab. inż. Mariusz Figurski | | | | | | |
| of lecturer (lecturers) | Teachers | | | | | | | | |
| 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 | Acquisition of knowledge on the methods of research used in technical sciences and in the faculty's educational practice. Acquisition of skills in conducting scientific discussions. Acquiring the ability to search and combine information from various studies available in Polish and world resources. Acquiring the ability to conduct quantitative and qualitative research in the field of geodesy and cartography and Civil Engineering. | | | | | | | | |

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| Learning outcomes | Course outcome | Subject outcome | Method of verification | | | | |
|---------------------------------|--|--|--|--|--|--|--|
| | [K7_U13] knows how to correctly define basic calculation models used in the computer calculation | Has the ability to cooperate, communicate and conduct scientific discourse in the field of formulating research problems, choosing a research method, discussing the results obtained and formulating conclusions. | [SU1] Assessment of task fulfilment | | | | |
| | [K7_W15] has the knowledge in soil testing and geotechnical monitoring with particular emphasis on measurement methods | Has deepened and structured knowledge about the methods of research used in technical sciences and education; knows the map of positions and methodological approaches; understands the role of quality standards in conducting research. | [SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation | | | | |
| | [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 | Has developed skills to analyze the results of numerical research: develops and transforms quantitative and qualitative data using specialized analytical and statistical software, selects the appropriate analytical method, interprets test results in accordance with the principles of statistical inference and numerical studies, draws conclusions in a substantively authorized manner. | [SU4] Assessment of ability to use methods and tools | | | | |
| | [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 | Has developed skills to analyze the results of numerical research: develops and transforms quantitative and qualitative data using specialized analytical and statistical software, selects the appropriate analytical method, interprets test results in accordance with the principles of statistical inference, draws conclusions in a substantively authorized manner. | [SU2] Assessment of ability to analyse information | | | | |
| Subject contents | Using a data resource. | | | | | | |
| | Methods of conducting research, research methodology. | | | | | | |
| | Data archives in Poland and in the world. Data access rules. Research diagrams | | | | | | |
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| | Interpretation of test results. | | | | | | |
| | Consultation on the methodology of writing a scientific article | | | | | | |
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| Prerequisites and co-requisites | He has a structured knowledge of theories in the field of civil engineering, geodesy and cartography, learning and teaching as well as other educational processes, and has ordered knowledge about variouresearch methods in geodesy and cartography, their specificities and processes taking place in them. | | | | | | |
| | Has the ability to search the world's Internet resources in terms of information about a given field of science, as well as selecting the most useful information and assessing its credibility. | | | | | | |
| | Has the ability to perform calculations and data analysis using computer software, including: c minimum, maximum, average and measure of distraction for many observations, grouping obsadjusting the trend to the time series, creating graphs allowing to compare the distribution of fe several communities, creating graphs depicting the course of time series. | | | | | | |
| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | | | | |
| and criteria | Presence at lectures. | 60.0% | 50.0% | | | | |
| | Conversation about the presentation. | 10.0% | 20.0% | | | | |
| | Review of the submitted presentation. | 30.0% | 30.0% | | | | |
| Recommended reading | Basic literature | Zieliński J., Metodologia pracy naukowej, Wyd. Oficyna Wydawnicza ASPRA-JR Warszawa 2012 | | | | | |
| | | Węglińska M., Jak pisać pracę magisterską. Poradnik dla studentów., Wyd. Impuls Kraków 2016. | | | | | |

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| | Supplementary literature eResources addresses | Eugeniusz Gatnar, Marek Walesiak . 2009. Statystyczna analiza danych z wykorzystaniem programu R. Warszwa: Wydawnictwo Naukowe PWN. Siwiński W., Tauber R.D.: Metodologia badań naukowych. Wyd. WSHiG, Poznań 2006. |
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| | eresources addresses | Adresy na platformie eNauczanie: Specyfika Badawcza Wydziału - Moodle ID: 29036 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29036 |
| Example issues/ example questions/ tasks being completed | | |
| Work placement | Not applicable | |

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