University of Gdańsk

Subject card

| | | | |
|---|---|---|---|
| Subject name and code | Statistics in Geography - laboratory, PG_00193791 | | |
| Field of study | Geography | | |
| Date of commencement of studies | October 2027 | Academic year of realisation of subject | 2027/2028 |
| Education level | Bachelor's studies | Subject group | Obligatory subject group in the field of study |
| 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 | 2.0 |
| Learning profile | academic | Assessment form | credit |
| Conducting unit | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr Mirosława Malinowska | |
| | Teachers | | |

**Lesson types**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 0.0 | 0.0 | 30.0 | 0.0 | 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 | 2.0 | 18.0 | 50 |

**Subject objectives**

Course participants will acquire knowledge and skills in the correct selection and use of advanced statistical methods depending on the type of data available and the research problem being solved, as well as in interpreting the results obtained.

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [GEOGRL3-K01] is prepared to critically assess the level of one's knowledge, use it in professional activities and, in case of difficulties, to be assisted by the knowledge of experts | Is ready to critically assess his level of knowledge of statistical methods used in geographical research. | [SK8] observation of student's independent or team work |
| [GEOGRL3-W06] knows advanced methods of acquiring, processing, and compiling geographic environmental data, as well as methods of analyzing and interpreting such data | Indicates statistical methods of data processing appropriate for the research problem being analysed and knows the principles of interpreting the results obtained. | [SW4] test/exam - oral or written |
| [GEOGRL3-U04] can apply field and laboratory methods and research tools, spatial analysis methods, and methods of presenting research results in the field of geography, assess their usefulness for tasks in which the application goal of geography can be realized | Correctly selects and applies statistical methods to process data concerning the geographical environment and interpret the results obtained. | [SU4] test/exam - oral or written |

<table>
<tr><td>Subject contents</td><td>1. Specific and distributional ranges, measures of position, dispersion, skewness and kurtosis, graphical techniques for data presentation<br>2. Analysis of interdependence and correlation<br>3. Regression and trend function<br>4. Probability introduction, statistical distributions</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>test</td><td>51.0%</td><td>90.0%</td></tr>
<tr><td>observation of student work</td><td>51.0%</td><td>10.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>literature only in Polish</td></tr>
<tr><td>Supplementary literature</td><td>literature only in Polish</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>1. For the given statistical series, determine the mean, median, mode, first and third quartiles. Plot a histogram and distribution curve.<br>2. Based on the data, determine the regression equation and then check its statistical significance.</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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