

Subject card

| Subject name and code | Statistics , PG_00049165 | | | | | | | | |
|---|--|-----------------------------------|--|-------------------------------------|--|------------------------|---------|-----|--|
| Field of study | Spatial Development | | | | | | | | |
| Date of commencement of studies | October 2022 | | Academic year of realisation of subject | | | 2023/2024 | | | |
| Education level | first-cycle 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 | 2 | | Language of instruction | | | Polish | | | |
| Semester of study | 3 | | ECTS credits | | | 4.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | exam | | | |
| Conducting unit | Department of Economic Sciences -> Faculty of Management and Economics | | | | | | | | |
| Name and surname | Subject supervisor dr inż. Krzysztof Świetlik | | | | | | | | |
| of lecturer (lecturers) | Teachers | | dr inż. Krzysztof Świetlik | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Projec | :t | Seminar | SUM | |
| | Number of study hours | 15.0 | 30.0 | 0.0 | | | 0.0 | 45 | |
| | E-learning hours included: 0.0 | | | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in classes included | | Participation in consultation hours | | Self-study | | SUM | |
| | Number of study hours | 45 | | 7.0 | | 48.0 | | 100 | |
| | Shaping the practical skills of using statistical software to process statistical data and interpret the results. Developing creativity in collecting statistical data from public internet sources for the needs of cor innovative analyses. | | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | |
| | [K6_U07] evaluates the | | The student has a basic knowledge of the spatial nature of socio-economic phenomena. The student knows and can choose the appropriate tools for the analysis of spatial phenomena. | | [SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject | | | | |
| | K6_U04 | | The student can interpret the results of his/her statistical analyzes. | | | | | | |
| | [K6_W03] has elementary knowledge in the field of mathematics and physics relating to issues related to space management, including the basic mathematical methods used in urban design, as well as analytical and design methods using information technology used in planning processes of settlement structures | | The student can choose the description method depending on the data type, using both accounting calculations and statistical software. | | [SW3] Assessment of knowledge contained in written work and projects | | | | |

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| Subject contents | Variables type. Measurement scales. Grouping and presentation of statistical material Measures of central tendency and diversity Asymmetry and kurtosis measures Analysis of relationship between qualitative variables Analysis of relationship between quantitative variables Regression Dynamics analysis - index method Dynamics analysis - trend and seasonality models Spatial weight matircies Visualization of spatial data Spatial autocorrelation Spatial regression models | | | | | |
|--|---|--|--|--|--|--|
| Prerequisites and co-requisites | | | | | | |
| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | | | |
| and criteria | Tutorial exam | 60.0% | 34.0% | | | |
| | Written exam | 60.0% | 33.0% | | | |
| | Tutorial exam | 60.0% | 33.0% | | | |
| Recommended reading | Basic literature Supplementary literature | Warszawa 2011. Kukuła, K., "Elementy statystyk 2011. Piłatowska, M., "Reptytorium ze 2007. S Suchecka J. (red.), "Statysty struktur przestrzennych" Sobczyk, M., "Statystyka", PWN Sej-Kolasa, M., Zielińska A., "Ećwiczeń", Wydawnictwo Akademii Ekonor Wrocławiu, Wrocław 2004. Jóźwik, J., Podgórski J., "Statys 2000. Kopczewska K., "Ekonometria i | tukuła, K., "Elementy statystyki w zadaniach", PWN, Warszawa 011. iłatowska, M., "Reptytorium ze statystyki", PWN, Warszawa 007. Suchecka J. (red.), "Statystyka przestrzenna. Metody analiz truktur przestrzennych" obczyk, M., "Statystyka", PWN, Warszawa 2008. ej-Kolasa, M., Zielińska A., "Excel w statystyce. Materiały do wiczeń", vydawnictwo Akademii Ekonomicznej im. O. Langego we Wrocławiu, Wrocław 2004. óźwik, J., Podgórski J., "Statystyka od postaw", PWE, Warszawa | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | | | |
| Example issues/ example questions/ tasks being completed | Based on the prepared data set calculate and interpret measures of central tendency, diveristy, asymmetry and kurtosis. Check whether there is a correlation between variable X and Y. Estimate the multiple regression model for the variable X. Interpret goodness-of-fit measures. Check if variable X is spatially autocorrelated. Justify your answer. | | | | | |
| Work placement | Not applicable | | | | | |

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