

## Subject card

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                          |                                         |                                     |                                                |            |     |
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| Subject name and code                       | Statistics in administration - auditorium classes, PG_00132146                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          |                                         |                                     |                                                |            |     |
| Field of study                              | Law in administration and economy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                          |                                         |                                     |                                                |            |     |
| Date of commencement of studies             | October 2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                          | Academic year of realisation of subject |                                     | 2025/2026                                      |            |     |
| Education level                             | Master's studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                          | Subject group                           |                                     | Obligatory subject group in the field of study |            |     |
| Mode of study                               | part-time studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                          | Mode of delivery                        |                                     | at the university                              |            |     |
| Year of study                               | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                          | Language of instruction                 |                                     | Polish<br>Polish                               |            |     |
| Semester of study                           | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                          | ECTS credits                            |                                     | 2.0                                            |            |     |
| Learning profile                            | academic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                          | Assessment form                         |                                     | exam                                           |            |     |
| Conducting unit                             | Faculty of Law and Administration -> Rector                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                          |                                         |                                     |                                                |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          | dr Dorota Banaszkiewicz                 |                                     |                                                |            |     |
|                                             | Teachers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                          | dr Dorota Banaszkiewicz                 |                                     |                                                |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Lecture                                                  | Tutorial                                | Laboratory                          | Project                                        | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.0                                                      | 10.0                                    | 0.0                                 | 0.0                                            | 0.0        | 10  |
|                                             | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10                                                       |                                         | 0.0                                 |                                                | 40.0       | 50  |
| Subject objectives                          | 1. Gaining knowledge about the sources of data on economic, social, and population phenomena and how they are generated, as well as the knowledge necessary to conduct statistical research and data analysis.<br>2. Developing skills in selecting appropriate methods for analyzing economic and social phenomena and interpreting the obtained results.<br>3. Learning the potential applications of statistical methods in economic and social life, in administrative, social, and business decision-making. |                                                          |                                         |                                     |                                                |            |     |

| Learning outcomes               | Course outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Subject outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Method of verification                                                                                              |
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|                                 | PAGMU2_WG02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | K_KR04<br>The student is ready to responsibly fulfill professional roles, develop professional achievements, continuously educate themselves in order to select and apply statistical methods in the assessment of socio-economic phenomena, and advance their professional career.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | [SW4] test/exam - oral or written<br>[SW2] presentation/project/paper/report                                        |
|                                 | PAGMU2_WG05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | KNOWLEDGE<br>K_WG02<br>knows and understands, at an in-depth level, the terminology, methods, and theories explaining the relationships between law in administration and economy, and related sciences. Also possesses in-depth knowledge of methods and tools for modeling organizational processes, including decision-making processes.<br>K_WG05<br>knows the main development trends in scientific fields other than law belonging to the social sciences.<br>SKILLS<br>K_UU03<br>can independently formulate and test hypotheses for simple research problems and carry out procedures to solve them.<br>COMPETENCIES<br>K_KR04<br>is ready to responsibly fulfill professional roles, develop professional achievements, continuously improve one's education, and achieve further career advancement. | [SW2] presentation/project/paper/report<br>[SW5] implementation of a problem task                                   |
|                                 | PAGMU2_UW03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | K_UU03<br>The student is able to independently formulate and test hypotheses of simple research problems concerning socio-economic phenomena and carry out procedures to solve them using statistical methods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | [SU2] presentation/project/paper/report<br>[SU3] text preparation/written work<br>[SU4] test/exam - oral or written |
|                                 | PAGMU2_KR04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | K_W02<br>The student has in-depth knowledge of statistical methods and tools for modeling processes in an organization, including decision-making processes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | [SK4] test/exam - oral or written                                                                                   |
| Subject contents                | <p>I. Introductory Issues and Structure Analysis</p> <ul style="list-style-type: none"> <li>- Concepts and methods of statistics, applications of statistics, basic concepts, statistical research (types, stages).</li> <li>- Data presentation: series, tables, graphs.</li> <li>- Analysis of distribution properties: central tendency, dispersion, asymmetry. Structural similarity index.</li> </ul> <p>II. Interdependence analysis</p> <ul style="list-style-type: none"> <li>- Correlation of quantitative characteristics - Pearson's linear correlation coefficient.</li> <li>- Correlation of qualitative characteristics - Cramer's V coefficient.</li> <li>- Correlation of ordinal characteristics - Spearman's rank correlation coefficient.</li> </ul> <p>III. Analysis of changes over time</p> <ul style="list-style-type: none"> <li>- The nature and types of time series, graphical presentation.</li> <li>- Measures of the average level of a phenomenon in time series.</li> <li>- Dynamic analysis: individual dynamic indicators.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                     |
| Prerequisites and co-requisites |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                     |

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| Assessment methods and criteria                                | Subject passing criteria | Passing threshold | Percentage of the final grade |
|                                                                | test                     | 51.0%             | 50.0%                         |
|                                                                | term paper               | 51.0%             | 50.0%                         |
| Recommended reading                                            | Basic literature         |                   |                               |
|                                                                | Supplementary literature |                   |                               |
|                                                                | eResources addresses     |                   |                               |
| Example issues/<br>example questions/<br>tasks being completed |                          |                   |                               |
| Work placement                                                 | Not applicable           |                   |                               |

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