

## Subject card

|                                             |                                                                                                                                                                                                                                                                                                |                                                          |                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                                                                                                      |            |     |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Descriptive Statistics, PG_00178593                                                                                                                                                                                                                                                            |                                                          |                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                                                                                                      |            |     |
| Field of study                              | Finance and Accounting                                                                                                                                                                                                                                                                         |                                                          |                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                                                                                                      |            |     |
| Date of commencement of studies             | October 2025                                                                                                                                                                                                                                                                                   |                                                          | Academic year of realisation of subject                                                                                                                                                                                                                                                                                                                                                    |                                     | 2025/2026                                                                                                            |            |     |
| Education level                             | Bachelor's studies                                                                                                                                                                                                                                                                             |                                                          | Subject group                                                                                                                                                                                                                                                                                                                                                                              |                                     | Obligatory subject group in the field of study<br>Subject group related to scientific research in the field of study |            |     |
| Mode of study                               | full-time studies                                                                                                                                                                                                                                                                              |                                                          | Mode of delivery                                                                                                                                                                                                                                                                                                                                                                           |                                     | at the university                                                                                                    |            |     |
| Year of study                               | 1                                                                                                                                                                                                                                                                                              |                                                          | Language of instruction                                                                                                                                                                                                                                                                                                                                                                    |                                     | English                                                                                                              |            |     |
| Semester of study                           | 1                                                                                                                                                                                                                                                                                              |                                                          | ECTS credits                                                                                                                                                                                                                                                                                                                                                                               |                                     | 7.0                                                                                                                  |            |     |
| Learning profile                            | academic                                                                                                                                                                                                                                                                                       |                                                          | Assessment form                                                                                                                                                                                                                                                                                                                                                                            |                                     | exam                                                                                                                 |            |     |
| Conducting unit                             | Department of Statistics -> Faculty of Management -> Rector                                                                                                                                                                                                                                    |                                                          |                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                                                                                                      |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                                                                                                             |                                                          | dr hab. Ewa Wycinka                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                                                                                                      |            |     |
|                                             | Teachers                                                                                                                                                                                                                                                                                       |                                                          | dr Anna Gierusz-Matkowska<br><br>dr hab. Ewa Wycinka                                                                                                                                                                                                                                                                                                                                       |                                     |                                                                                                                      |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                                                                                                                                    | Lecture                                                  | Tutorial                                                                                                                                                                                                                                                                                                                                                                                   | Laboratory                          | Project                                                                                                              | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                                                                                                          | 30.0                                                     | 30.0                                                                                                                                                                                                                                                                                                                                                                                       | 15.0                                | 0.0                                                                                                                  | 0.0        | 75  |
|                                             | 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                                                                                                                                                                                                                                                                          | 75                                                       |                                                                                                                                                                                                                                                                                                                                                                                            | 4.0                                 |                                                                                                                      | 96.0       | 175 |
| Subject objectives                          | Presentation of elementary statistical methods and statistical nomenclature and development of skills in interpreting results and explaining the purpose of using particular methods.                                                                                                          |                                                          |                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                                                                                                      |            |     |
| Learning outcomes                           | Course outcome                                                                                                                                                                                                                                                                                 |                                                          | Subject outcome                                                                                                                                                                                                                                                                                                                                                                            |                                     | Method of verification                                                                                               |            |     |
|                                             | [FiRL3_W04] The student has advanced knowledge and understanding of the role and place of man in financial structures and his behaviour in organisations, both at the individual, group, and institutional levels.                                                                             |                                                          | The student is able to analyze the causes, course, and effects of financial and accounting processes using descriptive statistical methods, and interprets regularities within populations and relationships between variables. Examples include the analysis of company financial data, the study of market trends, and the evaluation of financial performance based on statistical data |                                     | [SW4] test/exam - oral or written                                                                                    |            |     |
|                                             | [FiRL3_U04] The student is able—from the perspective of finance and accounting—to correctly select and properly apply methods and tools from the fields of management and quality sciences, economics, and finance to analyse and forecast economic processes and evaluate economic phenomena. |                                                          | The student selects methods of statistical description depending on the research problem and the nature of the phenomena under investigation.                                                                                                                                                                                                                                              |                                     | [SU4] test/exam - oral or written                                                                                    |            |     |

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| Subject contents                                               | 1. Introductory concepts and key terms: population, sample, variable characteristics. Statistical research: types and stage.<br>2. Organizing, visualizing, and describing data.<br>3. Distribution characteristics: measures of central tendency, measures of dispersion, skewness, concentration.<br>4. Analysis of Interdependence.<br>5. Introduction to the regression analysis.<br>6. Time series analysis, analysis of simple and complex dynamic phenomena. |                                                                                                                                                                                                                      |                               |
| Prerequisites and co-requisites                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                               |
| Assessment methods and criteria                                | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                                                                            | Passing threshold                                                                                                                                                                                                    | Percentage of the final grade |
|                                                                | tests                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 51.0%                                                                                                                                                                                                                | 30.0%                         |
|                                                                | exam                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 51.0%                                                                                                                                                                                                                | 50.0%                         |
|                                                                | project                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 51.0%                                                                                                                                                                                                                | 20.0%                         |
| Recommended reading                                            | Basic literature                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Anderson, D.R., 2020, Statistics for business and economics / Cengage Learning EMEA, 5th edition.                                                                                                                    |                               |
|                                                                | Supplementary literature                                                                                                                                                                                                                                                                                                                                                                                                                                            | Black, K., 2011, Applied Business Statistics: Making Better Business Decision, John Wiley and Sons<br>Aczel, A., Sounderpandian J., 2009, Complete Business Statistics with Student CD, The McGraw-Hill/Irwin Series |                               |
|                                                                | eResources addresses                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                      |                               |
|                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                               |
| Example issues/<br>example questions/<br>tasks being completed |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                               |
| Work placement                                                 | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                      |                               |

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