

Subject card

| Subject name and code | QUANTITATIVE METHODS IN THE ECONOMICS OF SPORT, PG_00058523 | | | | | | | |
|--|--|---------------------------------------|---|------------|-------------------------------|---|-----|-----|
| Field of study | Economics | | | | | | | |
| Date of commencement of studies | October 2024 | | Academic year of realisation of subject | | | 2026/2027 | | |
| Education level | first-cycle studies | | Subject group | | | Optional subject group 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 | 3 | | Language of instruction | | | Polish | | |
| Semester of study | 5 | | ECTS credits | | | 4.0 | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | |
| Conducting unit | Katedra Statystyki i E | aculty of Management and Economics | | | | | | |
| Name and surname | Subject supervisor | dr hab. Michał Pietrzak | | | | | | |
| of lecturer (lecturers) | Teachers | | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Projec | t Seminar | | SUM |
| | Number of study hours | 15.0 | 0.0 | 30.0 | 0.0 | 0.0 | | 45 |
| | E-learning hours included: 0.0 | | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation ir classes include plan | | | | Self-study | | SUM |
| | Number of study hours 45 | | 5.0 | | 50.0 | | 100 | |
| Subject objectives | Describes the possibilities of using quantitative methods in terms of their selection and obtaining reliable data | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | |
| | [K6_U06] acquires new knowledge by planning lifelong learning strategies | | acquires new knowledge necessary to conduct analyzes of the activities of the sports sector | | | [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools | | |
| [K6_W03] identifies r sources of information the analyzed issues | | | identifies reliable sources of obtaining information required to conduct analyzes of the activities of the sports sector | | | [SW3] Assessment of knowledge contained in written work and projects | | |
| Subject contents | Theoretical basis of multidimensional comparative analysis. Application of taxonomic measure of development for multidimensional evaluation of economic objects, including players, coaches, clubs and sports facilities. The principles and steps of linear ordering in ranking economic facilities. The use of cluster analysis to group economic objects. Application of different clustering methods (agglomerative, divisional or optimization). Basics of sports project management, life cycle of sports projects, specifics and problems of sports project management. Application of multi-criteria methods to select the best project due to the adopted criteria. | | | | | | | |
| Prerequisites and co-requisites | mathematics, macroeconomics, microeconomics, statistics | | | | | | | |
| Assessment methods and criteria | Subject passing criteria | | Passing threshold | | Percentage of the final grade | | | |
| | colloquium (lab) | | 60.0% | | | 50.0% | | |
| | exam | | 60.0% | | | 50.0% | | |

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| Recommended reading | Basic literature | Kufel ,T. (2022). Ekonometria. Rozwiązania problemów z wykorzystaniem programu Gretl. Warszawa; Wydawnictwo Naukowe PWN Trzaskalik, T. (red.) (2014). Wielokryterialne wspomaganie decyzji. Metody i zastosowania, Warszawa: PWE Kopczewska, K., Kopczewski, T., Wójcik, P. (2016). Metody ilościowe w R. Aplikacje ekonomiczne i finansowe, Warszawa: CeDeWu Sp. Zo.o. Górecka, D. (2009). Wielokryterialne wspomaganie wyboru projektów europejskich, Toruń: TNOiK Walesiak, M., Gatnar, E. (2009). Statystyczna analiza danych z wykorzystaniem programu R, Warszawa: PWN | | | |
|--|---|--|--|--|--|
| | Supplementary literature | Trzaskalik, T. (red.) (2006). Metody wielokryterialne na polskim rynku finansowym. Warszawa: PWE | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | | |
| Example issues/ example questions/ tasks being completed | Ranking of sports clubs in terms of sports achievements and social impact. The use of multi-criteria methods to choose the best club for a player based on the adopted criteria. | | | | |
| Work placement | Not applicable | | | | |

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