

Subject card

| Subject name and code | MODELING OF SUSTAINABLE DEVELOPMENT, PG_00058527 | | | | | | | | |
|---|--|---|---|-------------------------------------|-------------------------------|--|---------|-----|--|
| 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 Ekonometrii -> Faculty of M | | | Management and Economics | | | | | |
| Name and surname | Subject supervisor dr Marta Kuc-Czarnecka | | | | | | | | |
| 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 in classes include plan | | Participation in consultation hours | | 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_W03] identifies reliable sources of information relevant to the analyzed issues | | identifies reliable sources of information required for modeling sustainable development | | | [SW3] Assessment of knowledge contained in written work and projects | | | |
| | [K6_U06] acquires new knowledge by planning lifelong learning strategies | | acquires new knowledge necessary to conduct a quantitative analysis of the implementation of the concept of sustainable development | | | [SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools | | | |
| Subject contents | Sustainable development as an example of a multidimensional phenomenon. Selection of indicators of sustainable development. Composite indicator of sustainable development - stimulation and normalization of variables. Composite indicator of sustainable development - aggregation and weighting of variables. Sensitivity analysis of the composite indicator of sustainable development. Linear ordering of countries according to the degree of achievement of the SDGs. Grouping countries according to the degree of achievement of the SDGs - taxonomic analyzes. The spatial taxonomic measure of sustainable development. Upward convergence in monitoring the achievement of the SDGs. Soft modelling of sustainable development. | | | | | | | | |
| Prerequisites and co-requisites | basic statistical and econometric skills | | | | | | | | |
| Assessment methods and criteria | Subject passing criteria | | Passing threshold | | Percentage of the final grade | | | | |
| | Group project | | 60.0% | | | 100.0% | | | |
| Recommended reading | Basic literature Perło, D. (2014). Modelowanie zrównoważonego rozwoju. Białysto Wydawnictwo Uniwerysteckie Trans Humana. Panek, T. Zwierzchowski, J. (2013). Statystyczne metody wielowymiarowej analizy porównawcze. Teoria i zastosowania, Warszawa: Oficyna Wydawnicza SGH. Młodak, A. (2006). Statystyczna analiza wielowymiarowa w statyst regionalnej, Warszawa: Difin. | | | | | ania, | | | |
| | Supplementary literat | OECD (2008). Handbook on Constructing Composite Indicators. Methodology and User Guide. Paris: OECD Publications. | | | | | | | |
| | eResources addresses Adresy na platformie eNauczanie: | | | | | | | | |

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| example questions/ | Construct a composite indicator for the 7 th sustainable development goal. Prepare a linear ordering and group the European Union countries in terms of achieving this goal. Assess the convergence trends in the implementation of the seventh SDG. |
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| Work placement | Not applicable |

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