

## Subject card

|                                             |                                                                                                                                                                                                                                                                                                                                                                                     |                                                          |                                         |                                     |                                                |            |     |
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| Subject name and code                       | Sustainable Development – Theory and Practice, PG_00173373                                                                                                                                                                                                                                                                                                                          |                                                          |                                         |                                     |                                                |            |     |
| Field of study                              | International Business                                                                                                                                                                                                                                                                                                                                                              |                                                          |                                         |                                     |                                                |            |     |
| Date of commencement of studies             | October 2025                                                                                                                                                                                                                                                                                                                                                                        |                                                          | Academic year of realisation of subject |                                     | 2027/2028                                      |            |     |
| Education level                             | Bachelor’s 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                               | 3                                                                                                                                                                                                                                                                                                                                                                                   |                                                          | Language of instruction                 |                                     | Polish<br>English                              |            |     |
| Semester of study                           | 6                                                                                                                                                                                                                                                                                                                                                                                   |                                                          | ECTS credits                            |                                     | 3.0                                            |            |     |
| Learning profile                            | academic                                                                                                                                                                                                                                                                                                                                                                            |                                                          | Assessment form                         |                                     | credit                                         |            |     |
| Conducting unit                             | Department of Transport Economics -> Faculty of Economics -> Rector                                                                                                                                                                                                                                                                                                                 |                                                          |                                         |                                     |                                                |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                                                                                                                                                                                                  |                                                          | dr Giuseppe Cirella, prof. UG           |                                     |                                                |            |     |
|                                             | Teachers                                                                                                                                                                                                                                                                                                                                                                            |                                                          |                                         |                                     |                                                |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                                                                                                                                                                                                                         | Lecture                                                  | Tutorial                                | Laboratory                          | Project                                        | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                                                                                                                                                                                               | 30.0                                                     | 0.0                                     | 0.0                                 | 0.0                                            | 0.0        | 30  |
|                                             | 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                                                                                                                                                                                                                                                                                                                                                               | 30                                                       |                                         | 5.0                                 |                                                | 40.0       | 75  |
| Subject objectives                          | This course is designed to serve as a foundation course for students in Sustainable Development. The course will introduce to students the core concepts, principles and practices of sustainable development (SD). It examines the environmental, economic, and social dimensions of SD by focusing on changing patterns of consumption, production, and distribution of resources |                                                          |                                         |                                     |                                                |            |     |

| Learning outcomes | Course outcome                                                                                                                                                                                                                                                                    | Subject outcome                                                                                                                                                                                                                                                                                                               | Method of verification                                                                      |
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|                   | [IBL3_W09] knows and understands the basic economic, legal and other conditions of various activities related to the given qualification                                                                                                                                          | The student knows and understands the basic economic, legal and other conditions of various activities related to sustainable development related to the qualification.                                                                                                                                                       | [SW1] oral statement/<br>conversation/discussion<br>[SW3] text preparation/written work     |
|                   | [IBL3_K05] is ready to perform professional role in responsible manner, abide business ethics and business standards in working environment                                                                                                                                       | The student is prepared to perform a professional role responsibly and observe business ethics and business standards in the work environment.                                                                                                                                                                                | [SK1] oral statement/conversation/<br>discussion<br>[SK6] demonstration of practical skills |
|                   | [IBL3_K01] is ready to recognise the importance of knowledge in the field of international business in identifying and solving business theoretical and practical issues; is ready to consult with experts in case of facing difficulties in solving business issues individually | The student is prepared to recognize the importance of knowledge in the field of sustainable development in identifying and solving theoretical and practical problems in business; is ready to consult the teacher during consultation hours in case of encountering difficulties in solving business problems individually. | [SK1] oral statement/conversation/<br>discussion<br>[SK3] text preparation/written work     |
|                   | [IBL3_U01] can interpret and explain economic phenomena, analyse their causes, course and connections within these phenomena using the acquired knowledge of international business, economics and finance and complementary disciplines                                          | The student can interpret and explain phenomena related to sustainable development, and analyze their causes, course and relationships between them, using the acquired knowledge in the field of international business.                                                                                                     | [SU3] text preparation/written work<br>[SU6] demonstration of practical skills              |
|                   | [IBL3_W01] has knowledge of the discipline of economics and finance, involving critical understanding of theories of international business                                                                                                                                       | The student knows sustainable development, including a critical understanding of the theory.                                                                                                                                                                                                                                  | [SW1] oral statement/<br>conversation/discussion<br>[SW3] text preparation/written work     |
|                   | [IBL3_U03] is able to perform tasks in uncertain conditions, solve complex issues of international business by appropriate selection information sources, conducting critical analysis and synthesis on the collected information and data                                        | The student can perform tasks in conditions of uncertainty, solve complex international business problems related to sustainable development, make an appropriate selection of sources, carrying out a critical analysis and synthesis of the collected information and data.                                                 | [SU1] oral statement/conversation/<br>discussion<br>[SU6] demonstration of practical skills |
|                   | [IBL3_W07] knows and understands fundamental dilemmas of contemporary world economy; understands the necessity of sustainable development and corporate social responsibility                                                                                                     | The student knows and understands the basic dilemmas of the modern world economy in the context of sustainable development; and understands the need to introduce sustainable development and corporate social responsibility.                                                                                                | [SW1] oral statement/<br>conversation/discussion<br>[SW3] text preparation/written work     |

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| Subject contents | <p>1. Sustainable Development introduction</p> <ul style="list-style-type: none"><li>- Definition of sustainable development;</li><li>- Economic dimension of sustainable development;</li><li>- Environmental sustainability;</li><li>- Social sustainability;</li><li>- Measuring sustainability, well-being, quality of life.</li></ul> <p>2. Identification of challenges of the global world &amp; impact of human activities on the environment</p> <ul style="list-style-type: none"><li>- Social pressure and demographic trends, urbanization processes;</li><li>- Economic growth, technology and globalization;</li><li>- Environmental pressure, food production;</li><li>- External effects of human activities.</li></ul> <p>3. Ecological footprint and Living Planet Index (LPI) - theoretical introduction (what is an ecological footprint and LPI, how they are measured and how ecological footprint can be improved) and the discussion on the indicators for Europe and rest of the world.</p> <p>Group Work: how to improve our ecological footprint?</p> <p>4. From Stockholm to Paris - a short history of environmental events and statements (UN Conference on Human Environment; Our Common Future, Rio Declaration, Rio+10 and Rio+20; Kyoto Protocol; EU SD Strategy; Europa 2020; Roadmap 2050; COP 21: UN climate change conference / Sustainable Innovation Forum).</p> <p>5. Macroeconomic policies and the environment</p> <ul style="list-style-type: none"><li>- Government and Civil society;</li><li>- Policies, instruments and the environment;</li><li>- Policy implementation.</li></ul> <p>6. Market failure: public goods and externalities</p> <ul style="list-style-type: none"><li>- The theory of environmental externalities;</li><li>- Internalizing environmental costs;</li><li>- Market failures;</li><li>- Shadow prices;</li><li>- Public goods;</li></ul> |
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|                                 | <p>- Property rights and the Coase theorem.</p> <p>7. Firms and markets - corporate perspectives</p> <p>- Identifying and prioritizing problems;</p> <p>- Defining priorities for actions: diagnosing causes and finding solutions;</p> <p>- Valuating the costs and benefits of environmental management.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                               |
| Prerequisites and co-requisites | Basic knowledge of microeconomics and makroeconomics and international economics.                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                               |
| Assessment methods and criteria | Subject passing criteria                                                                                                                                                                                                                                                                                       | Passing threshold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Percentage of the final grade |
|                                 | Group work                                                                                                                                                                                                                                                                                                     | 51.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20.0%                         |
|                                 | Essay                                                                                                                                                                                                                                                                                                          | 51.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 80.0%                         |
| Recommended reading             | Basic literature                                                                                                                                                                                                                                                                                               | <p>1. Eriksson, K.-E. and Robčrt, K.-H., 1991. From the Big Bang to Sustainable Societies. Reviews in Oncology. Vol.4, No.2, 5-14.</p> <p>2. Markandya A., Harou P., Bellu L. G., Cistulli V., Environmental economics for sustainable development, Edward Elgar, Massachusetts 2002.</p> <p>3. Kolstad C. D., Environmental economics, Oxford University Press, Oxford 2000.</p> <p>4. Harris J. M. Environmental and Natural Resource Economics, A contemporary approach, Houghton Mifflin Co., New York 2002</p> |                               |

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|  | Supplementary literature | <p>1. Azar, C., Holmberg, J. and Lindgren, K., 1995. Socio-ecological indicators for sustainability. <i>Ecological Economics</i>, 18, 89-112. (Also in Spanish in <i>La realidad Economica</i>, Buenos Aires.)</p> <p>2. Holmberg, J., Robčrt, K.-H. and Eriksson, K.-E., 1996. Socio-ecological principles for sustainability. In: Costanza, R., Oلمان, S., and Martinez-Alier, J. (ed.), <i>Getting Down to Earth Practical Applications of Ecological Economics</i>, International Society of Ecological Economics, Island Press. Washington DC.</p> <p>3. Robčrt, K.-H., Daly, H., Hawken, P., and Holmberg, J. 1997. A Compass for Sustainable Development. <i>Int. J. Sustain. Dev. World Ecol</i>, 4, 79-92.</p> <p>4. Andersson, K., Hogaas, E.M., Lundqvist, U., and Mattson, B. 1998. The feasibility of including sustainability in LCA for product development. <i>Journal of Cleaner Production</i>, 6, 289-298.</p> <p>Holmberg, J. 1998. Backcasting a natural step when operationalising sustainable development. <i>Greener Management International</i>. no. 23.</p> <p>5. Robčrt, K.-H., Holmberg, J., and Von Weizsäcker, E. U., 2001. Factor X for subtle policymaking Objectives, potentials and obstacles. <i>Greener Management International - Issue 31</i>, ISSN 0966-9671, Greenleaf Publishing.</p> <p>Robčrt, K.-H., Schmidt-Bleek, B., Aloisi de Lardere, J., Basile, G., Jansen, L., Kuehr, R., Price Thomas, P. Suzuki, M., Hawken, P., and Wackernagel, M. 2001. Strategic sustainable development - selection, design and synergies off applied tools -. <i>The Journal of Cleaner Production</i>, 10 (2002) 197-214.</p> <p>6. Ny, H., Broman, G., MacDonald, J.P., Yamamoto, R., Robčrt, K.-H. Strategic LCA- Reframing Traditional Boundaries Using Sustainability Constraints. Submitted for publication in <i>The Journal of Industrial Ecology</i>. Nov. 2003.</p> <p>7. Tippet, J. The value of combining a systems view of sustainability with a participatory protocol for ecologically informed design in river basins. Centre for Urban and Regional Ecology, School of Planning and Landscape, University of Manchester, Oxford Road, Manchester, M13 9PL, UK. Received 6 January 2003; received in revised form 21 July 2003; accepted 1 December 2003. Elsevier, <i>Environmental Modelling &amp; Software</i> 20 (2005) 119-139.</p> <p>8. Hallstedt, S., Ny, H., Robčrt, K.-H. and Broman, G. 2010. An approach to assessing sustainability integration in strategic decision systems, <i>Journal of Cleaner Production</i> 18: 703-712</p> <p>9. Missimer, M., Robčrt, K.-H., Broman, G., Sverdrup, H. 2010. Exploring the possibility of a systematic and generic approach to social sustainability. <i>Journal of Cleaner Production</i> 18, 1107-1112.</p> |
|  | eResources addresses     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| Example issues/<br>example questions/<br>tasks being completed | Group work: how to improve our ecological footprint? |
| Work placement                                                 | Not applicable                                       |

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