

## SYLLABUS

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|-------------------------|---------------------------------------------------------|
| <b>Name:</b>            | <b>Sustainable management of logistics processes</b>    |
| <b>Name in Polish:</b>  | <b>Zrównoważone zarządzanie procesami logistycznymi</b> |
| <b>Name in English:</b> | <b>Sustainable management of logistics processes</b>    |

### Information on course:

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|---------------------------------------|---------------------------------------------|
| <b>Course offered by department:</b>  | Faculty of Organisation and Management      |
| <b>Course for department:</b>         | Silesian University of Technology           |
| <b>Study level and form:</b>          | Bachelor's degree, Full-time                |
| <b>Term:</b>                          | winter semester (7), 2026/2027              |
| <b>Coordinator of course edition:</b> | Prof. PŚ dr hab. Monika Odlanicka-Poczobutt |

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| <b>Default type of course examination report:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |
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| <b>Language:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |
| English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |
| <b>Course homepage:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |
| <a href="https://platforma.polsl.pl/roz/course/view.php?id=401#">https://platforma.polsl.pl/roz/course/view.php?id=401#</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |
| <b>ECTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |
| <b>Short description:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                    |
| The aim of the course is to promote the idea of a responsible approach to running a business, the principles of organizing and planning these activities. Each company, regardless of its business profile, has a specifically organized supply chain that covers a number of key business processes (the entire product life cycle, including sales, after-sales services and disposal), constituting the essence of the enterprise.                                                                                                                                              |                                                    |
| <b>Description:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    |
| Lecture 1 Origin and development of the concept of sustainable development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    |
| Lecture 2 Process approach in logistics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Exercise 1 Supply chain configuration              |
| Lecture 3 Development of the concept of a sustainable supply chain - from SCM to SSCM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Exercise 2 Selection of suppliers                  |
| Lecture 4 Socially responsible supply chain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Exercise 3 Stakeholder map and relationship matrix |
| Lecture 5 New trends in sustainable management of logistics processes in the supply chain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                    |
| Lecture 6 Supply chain and value chain ▪ organizational management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Exercise 4 Actions for sustainable development     |
| Lecture 7 Tools for sustainable supply chain management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Exercise 5 Advertising campaign design             |
| <b>Bibliography:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |
| 1. Bozarth C.B., Handfield R.B., <i>Wprowadzenie do zarządzania operacjami i łańcuchem dostaw</i> , Helion, Gliwice 2007.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                    |
| 2. Brdulak H. (red.), <i>Logistyka przyszłości</i> , PWE, Warszawa 2012.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                    |
| 3. <i>Nasza wspólna przyszłość</i> , Raport Światowej Komisji do spraw Środowiska i Rozwoju, PWE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |
| 4. Rudnicka A., <i>Rozwój zrównoważony w łańcuchach dostaw</i> , Acta Universitatis Lodzianensis 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |
| 5. Wiśniewska J., Janasz K. (red.), <i>Innowacyjność organizacji w strategii inteligentnego i zrównoważonego rozwoju</i> , Difin, Warszawa 2012                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                    |
| 6. Witkowski J, <i>Zarządzanie łańcuchem dostaw</i> , PWE, Warszawa 2010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                    |
| 7. <i>Wytyczne OECD dla przedsiębiorstw wielonarodowych</i> , Organizacja Współpracy Gospodarczej i Rozwoju                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |
| 8. <i>Zrównoważony łańcuch dostaw</i> , Zespół do spraw Społecznej Odpowiedzialności Przedsiębiorstw, Ministerstwo Gospodarki                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |
| 9. <i>KMPG International Survey of Corporate Responsibility Reporting 2011</i> , <a href="http://www.kpmg.de/dosc/Survey-corporate-responsibility-reporting-2011-pdf">www.kpmg.de/dosc/Survey-corporate-responsibility-reporting-2011-pdf</a>                                                                                                                                                                                                                                                                                                                                      |                                                    |
| 10. Linton J., Klassen R., Jayaramen V., <i>Sustainable supply chains</i> , An introduction 2007, [w] <i>Journal of Operations Management</i> , Zeszyt 6, s. 1075-1082                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |
| 11. Paliwoda-Matiolańska A., <i>Odpowiedzialność społeczna w procesie zarządzania przedsiębiorstwem</i> , Warszawa 2009                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |
| 12. <i>Supply Chain Sustainability. A Practical Guide For Continuous Improvement</i> . (2010) Publikacja United Nations Global Compact (UNGC) & Business for Social Responsibility (BSR) (2010).                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |
| 13. <i>Zrównoważony łańcuch dostaw: trendy i innowacje</i> , Analiza tematyczna Nr 3/2013, Forum Odpowiedzialnego Biznesu.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    |
| 14. <a href="http://www.bsr.org/reports/BSR_UNGC_SupplyChainReport.pdf">http://www.bsr.org/reports/BSR_UNGC_SupplyChainReport.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |
| 15. <a href="http://www.bsr.org/reports/BSR_UNGC_SupplyChainReport">www.bsr.org/reports/BSR_UNGC_SupplyChainReport</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |
| 16. <a href="http://www.globalcompact.org.pl">www.globalcompact.org.pl</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    |
| 17. <a href="http://www.odpowiedzialnafirma.pl">www.odpowiedzialnafirma.pl</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |
| 18. <a href="http://www.sejm.gov.pl/prawo/konst/polski/kon1.htm">www.sejm.gov.pl/prawo/konst/polski/kon1.htm</a> , Konstytucja RP, tekst uchwalony w dniu 2 kwietnia 1997 r. Przez Zgromadzenie Narodowe                                                                                                                                                                                                                                                                                                                                                                           |                                                    |
| <b>Learning outcomes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                    |
| E1 Basic engineering processes and technologies in the life cycle of technical equipment, objects and systems and ways of solving typical engineering tasks, particularly in relation to the organization of production processes and production management. K1A_W3                                                                                                                                                                                                                                                                                                                |                                                    |
| E2 Basic principles and objectives of sustainable development and their importance in the product life cycle. K1A_W6                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |
| E3 Identify, analyze and interpret social and economic phenomena and processes using knowledge in the field of social sciences and standard methods and tools of management and quality sciences in engineering management activities aimed at shaping the efficiency, productivity and organization of production enterprises. Make a critical analysis of the functioning of existing technical and technological solutions in production systems, evaluate these solutions, diagnose problems, and propose appropriate improvements and innovations in this area. K1A_U2 K1A_U5 |                                                    |
| E4 Integrate and apply interdisciplinary knowledge from engineering and technical sciences incorporating principles and objectives of sustainable development to product life cycle management. K1A_U10                                                                                                                                                                                                                                                                                                                                                                            |                                                    |

E5 Responsible performance of professional roles, compliance with the rules of professional ethics and requiring it from others, care for the achievements and traditions of the profession; is aware of the importance and understands non-technical aspects and effects of engineering activities. K1A \_K3

**Assessment methods and assessment criteria:**

Lecture - writing a test on the subject based on lecture materials - 50%;

Laboratory - realization of exercises in groups of 2 persons for a fictitious company (with an established business profile) - 50%;

**Practical placement:**

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