



Subject card

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|---|---|--|--|-------------------------------------|--|------------|-----|
| Subject name and code | SUPPLY CHAIN MANAGEMENT, PG_00061367 | | | | | | |
| Field of study | Engineering Management | | | | | | |
| Date of commencement of studies | October 2024 | | Academic year of realisation of subject | | 2025/2026 | | |
| 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 | 2 | | Language of instruction | | Polish | | |
| Semester of study | 4 | | ECTS credits | | 4.0 | | |
| Learning profile | general academic profile | | Assessment form | | assessment | | |
| Conducting unit | Department Of Management Engineering And Quality -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Joanna Czerska | | | | |
| | Teachers | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | 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 didactic classes included in study plan | | Participation in consultation hours | | Self-study | SUM |
| | Number of study hours | 45 | | 5.0 | | 50.0 | 100 |
| Subject objectives | Designs supply chain structures and models as well as systems for managing stock holding and circular economy in the supply chain | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K6_W04] demonstrates creative and entrepreneurial activity in formulating and implementing innovative ideas | | models and optimizes supply chains in accordance with specific business goals, taking into account environmental aspects | | [SW1] Assessment of factual knowledge | | |
| | [K6_U05] designs innovative solutions for complex management processes, using appropriate methods and techniques | | designs innovative supply chain management solutions using appropriately selected methods | | [SU4] Assessment of ability to use methods and tools | | |

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| Subject contents | <p>LECTURE</p> <p>Basic concepts related to supply chain management</p> <p>Current trends and strategies in supply chain management</p> <p>Modeling the supply chain</p> <p>Supply chain map and its construction: from suppliers through manufacturers, distributors to the final customer</p> <p>Principles of assessing the current state of the supply chain: supply chain costs, operational and financial indicators, information and material flow in the supply chain</p> <p>Principles of modeling the state of the future supply chain</p> <p>Principles of planning changes in the supply chain</p> <p>Tools and techniques of shaping the supply chain</p> <p>The time required by the customer to complete the order and the construction of the supply chain</p> <p>Fundamentals of forecasting in the supply chain</p> <p>Inventory management in the supply chain</p> <p>Organizational structures within supply chain management</p> <p>TUTORIAL</p> <p>Supply Chain Management simulation game</p> <p>Analysis of the current state of the supply chain: participants in the supply chain, the course of processes in the supply chain, places where stocks are maintained in the supply chain, key indicators in supply chain management</p> <p>Supply chain diagnosis based on the supply chain map: identification of challenges and problems in the flow of information, materials in terms of business and operational objectives of the supply chain</p> <p>Designing changes in the supply chain and analyzing their results: modeling the flow of information and materials, pull system in the supply chain</p> <p>Supply chain operational and financial performance management</p> <p>Building a sustainable supply chain strategy working in groups on selected products in various production sectors (e.g. food, clothing, electronics)</p> <p>Analysis and mapping of the current supply chain for selected products: analysis of supply chain stages, identification of suppliers, their activities and locations at different levels of the supply chain</p> <p>Socio-environmental analysis of the supply chain, risk assessment and identification of areas of action</p> <p>Developing an action plan based on socio-environmental analysis to improve efficiency in the supply chain</p> <p>Formulating requirements and a code of conduct for suppliers building Maturity Matrices</p> <p>Developing supply chain management indicators for sustainable development (Sustainable Supply Chain Balanced Scorecard)</p> | | |
| Prerequisites and co-requisites | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Active participation in classes | 80.0% | 50.0% |
| | Project | 60.0% | 50.0% |
| Recommended reading | Basic literature | Goldratt E. Czy to nie oczywiste?, Mint books, 2012 Grant, David B.; Wong, Chee Yew; Trautrim, Alexander. Sustainable Logistics and Supply Chain Management. Kogan Pag, 2017 Eliyahu M. Goldratt, Ilan Eshkoli, Joe Brownleer. Isn't It Obvious?, The North River press, 2009 Weetman, Catherine. A Circular Economy Handbook for Business and Supply Chains. Kogan Page, 2016 | |
| | Supplementary literature | Cetinkaya, Balkan; Cuthbertson, Richard; Ewer, Graham; Klaas-Wissing, Thorsten; Piotrowicz, Wojciech; Tyssen, Christoph. Sustainable Supply Chain Management. Springer Berlin Heidelberg 2011 Ellen MacArthur Foundation, Towards the Circular Economy, Economic and business rationale for an accelerated transition. 2011 | |
| | eResources addresses | Adresy na platformie eNauczanie: | |
| Example issues/ example questions/ tasks being completed | | | |
| Work placement | Not applicable | | |

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