GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

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|---|---|---|---|
| Subject name and code | Fundamentals of logistics, PG_00060627 | | |
| Field of study | Transport and Logistics | | |
| Date of commencement of studies | October 2026 | Academic year of realisation of subject | 2026/2027 |
| Education level | first-cycle studies | Subject group | Obligatory subject group in the field of study<br>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 | 1 | Language of instruction | Polish |
| Semester of study | 1 | ECTS credits | 5.0 |
| Learning profile | general academic profile | Assessment form | exam |
| Conducting unit | Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr Anna Dembicka | |
| | Teachers | | |

**Lesson types**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 30.0 | 30.0 | 0.0 | 0.0 | 0.0 | 60 |

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 | 60 | 5.0 | 60.0 | 125 |

**Subject objectives**

Familiarizing the student with the organizational and management aspects of activities in basic logistics areas/tasks (transport, inventories, warehousing, packaging, customer service).

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [K6_K03] understands non-technical aspects and effects of activity in the profession of an engineer and its impact on the environment; is aware of the responsibility for decisions made | The student is aware of the impact of his work as an engineer on the environment and is responsible for the decisions made in this regard | [SK1] Assessment of group work skills<br>[SK3] Assessment of ability to organize work<br>[SK5] Assessment of ability to solve problems that arise in practice |
| [K6_W05] has established knowledge in the field of design, construction and operation of transport means and systems | The student has knowledge of the development and operation of systems and means of transport | [SW3] Assessment of knowledge contained in written work and projects<br>[SW2] Assessment of knowledge contained in presentation |
| [K6_U04] is skilled in self-educating in order to develop his professional qualifications, is prepared to work in an industrial environment, applies the principles of occupational health and safety | The student has acquired the ability to self-educate in order to deepen professional qualifications in an industrial environment. Applies occupational health and safety rules. | [SU3] Assessment of ability to use knowledge gained from the subject<br>[SU4] Assessment of ability to use methods and tools<br>[SU5] Assessment of ability to present the results of task |

**Subject contents**

Course content – lecture
Lectures. Basic issues: Introduction to logistics. Concept and development of logistics. Economic logistics. Logistics system analysis. Logistics channels. Supply logistics. Production logistics. Distribution logistics (warehousing, packaging, transport). Reverse logistics. Customer service. Additional issues: Green logistics, Push and pull system, Supply chain 4.0. Sustainable logistics infrastructure for mixing, storage, inventory management and information processing. City Logistic, Logistics as a key competence of enterprises
Exercises: Logistician, Development of economic logistics, Logistics system, Inventory management, Warehouse and information management (packing), Transport management

**Prerequisites and co-requisites**

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>lecture - colloquium + final assessment</td><td>60.0%</td><td>50.0%</td></tr>
<tr><td>exercises - 2 tests + additional tasks determined by the teacher on an ongoing basis</td><td>60.0%</td><td>50.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Blaik P., Logistyka. Koncepcja zintegrowanego zarządzania, PWE, Warszawa 2017.<br><br>Stochaj J. Śliżewska J., Podstawy logistyki, WSiP, Warszawa 2021.<br><br>Grzybowska K., Podstawy logistyki, Difin Warszawa 2010.<br><br>Skowronek Cz., Sarjusz Wolski Z. Logistyka w przedsiębiorstwie, PWE, 2012.</td></tr>
<tr><td>Supplementary literature</td><td>Gąsowska M. K., Zarządzanie procesami logistycznymi we współczesnych przedsiębiorstwach, Difin, Warszawa 2022.<br><br>Zimon D., Logistyka stosowana, CeDeWu, Warszawa 2022.<br><br>Szymonik A., Stanisławski R., Nowoczesna koncepcja ekologistyki, Difin, Warszawa 2021.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">tasks of logistics systems in the enterprise, supply logistics (methods of inventory formation), production logistics (logistic production planning), distribution logistics (distribution channels), transport and forwarding logistics (logistics centers, warehouses)</td></tr>
<tr><td>Practical activites within the subject</td><td colspan="2">Not applicable</td></tr>
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