

## Subject card

|                                             |                                                                                                                                                                                                 |                                                          |                                         |                                     |                                                                                                                      |            |     |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Transport and Logistics Infrastructure - lecture, PG_00174049                                                                                                                                   |                                                          |                                         |                                     |                                                                                                                      |            |     |
| Field of study                              | Logistics and Mobility                                                                                                                                                                          |                                                          |                                         |                                     |                                                                                                                      |            |     |
| Date of commencement of studies             | October 2025                                                                                                                                                                                    |                                                          | Academic year of realisation of subject |                                     | 2026/2027                                                                                                            |            |     |
| Education level                             | Bachelor's 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                               | 2                                                                                                                                                                                               |                                                          | Language of instruction                 |                                     | English                                                                                                              |            |     |
| Semester of study                           | 4                                                                                                                                                                                               |                                                          | ECTS credits                            |                                     | 3.0                                                                                                                  |            |     |
| Learning profile                            | academic                                                                                                                                                                                        |                                                          | Assessment form                         |                                     | credit                                                                                                               |            |     |
| Conducting unit                             | Department of Transport Market -> Faculty of Economics -> Rector                                                                                                                                |                                                          |                                         |                                     |                                                                                                                      |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                              |                                                          | dr hab. Dariusz Tłoczyński              |                                     |                                                                                                                      |            |     |
|                                             | 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                                                       |                                         | 10.0                                |                                                                                                                      | 35.0       | 75  |
| Subject objectives                          | The aim of the course is to familiarize students with the role and structure of transport and logistics infrastructure and its impact on the functioning of supply chains and mobility systems. |                                                          |                                         |                                     |                                                                                                                      |            |     |

| Learning outcomes               | Course outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Subject outcome                                                                                                                                                                                                                                                                                                                                                          | Method of verification            |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
|                                 | [LML3_K03] participates in the preparation of logistics and mobility projects, being able to reconcile legal, economic, ecological, political and social requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | The student is able to take into account legal, economic, environmental, social and political conditions when planning and evaluating transport and logistics infrastructure projects. In case of difficulties or doubts, the student is ready to use the consultation with the instructor as a form of supporting the process of preparing for the written examination. | [SK4] test/exam - oral or written |
|                                 | [LML3_U14] can appropriately set priorities and plan and organize the tasks involved in their implementation, as well as monitor and evaluate progress                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | The student is able to plan and organize tasks related to the development or maintenance of logistics and transport infrastructure, setting priorities for activities and monitoring their implementation.                                                                                                                                                               | [SU4] test/exam - oral or written |
|                                 | [LML3_W11] knows the general principles of creating and developing forms of individual entrepreneurship, using knowledge of economics, finance, management sciences, logistics and mobility                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | The student is able to use knowledge of transport and logistics infrastructure to identify opportunities for developing their own business in the logistics and mobility sector.                                                                                                                                                                                         | [SW4] test/exam - oral or written |
|                                 | [LML3_U15] is able to independently supplement and improve the acquired knowledge and economic skills, uses various methods of learning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The student is able to independently expand knowledge in the field of transport and logistics infrastructure, using available sources of information and self-education methods.                                                                                                                                                                                         | [SU4] test/exam - oral or written |
|                                 | [LML3_W05] has advanced knowledge of a human being as an entity that creates social structures and the principles of their functioning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | The student is able to analyse the impact of transport and logistics infrastructure on the functioning of social structures and understands the role of the user as an active participant in mobility systems.                                                                                                                                                           | [SW4] test/exam - oral or written |
|                                 | [LML3_W07] has knowledge of the basic economic and financial principles of operation and management of business entities and organizations that require logistics support or provide logistics services, as well as legal, organizational, moral and ethical norms and rules of operation of public institutions                                                                                                                                                                                                                                                                                                                                             | The student is able to analyze the functioning of logistics infrastructure, taking into account economic, financial and regulatory aspects.                                                                                                                                                                                                                              | [SW4] test/exam - oral or written |
|                                 | [LML3_W02] has advanced knowledge of different types of entities that require logistics support or provide logistics services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | The student is able to characterize different types of entities using logistics infrastructure and analyze their needs in terms of transport and warehousing support.                                                                                                                                                                                                    | [SW4] test/exam - oral or written |
| Subject contents                | 1. Introduction to transport and logistics infrastructure<br>2. Elements of transport infrastructure<br>3. Logistics and storage infrastructure<br>4. Transport and logistics infrastructure management<br>5. Spatial planning and infrastructure location<br>6. Intermodal and multimodal infrastructure<br>7. Economic aspects of logistics infrastructure<br>8. Sustainable development of transport infrastructure<br>9. Digitalization and intelligent infrastructure (Smart Mobility & Logistics)<br>10. Security and resilience of logistics infrastructure<br>11. Trends and challenges in the development of transport and logistics infrastructure |                                                                                                                                                                                                                                                                                                                                                                          |                                   |
| Prerequisites and co-requisites | none                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                          |                                   |
| Assessment methods and criteria | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Passing threshold                                                                                                                                                                                                                                                                                                                                                        | Percentage of the final grade     |
|                                 | exam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 51.0%                                                                                                                                                                                                                                                                                                                                                                    | 100.0%                            |
| Recommended reading             | Basic literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Bovy, P.H.L., Transport, Infrastructure and Logistics, Delft University Press, 2000.                                                                                                                                                                                                                                                                                     |                                   |
|                                 | Supplementary literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Kowalska-Napora Ewa, Infrastruktura logistyczna, Economicus, 2015.                                                                                                                                                                                                                                                                                                       |                                   |
|                                 | eResources addresses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                          |                                   |

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| Example issues/<br>example questions/<br>tasks being completed | Which of the following facilities is NOT directly part of intermodal infrastructure?<br><br>A. Container terminal<br>B. Logistics center<br>C. Railway bridge<br>D. Cargo airport |
| Work placement                                                 | Not applicable                                                                                                                                                                    |

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