

Subject card

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|--|---|--|-------------------------------|-------------------------------------|--|------------|-----|
| Subject name and code | Infrastructure and Technology Development in Transport, PG_00119124 | | | | | | |
| Field of study | Economics | | | | | | |
| Date of commencement of studies | October 2024 | Academic year of realisation of subject | | | 2026/2027 | | |
| 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 | | |
| Semester of study | 5 | ECTS credits | | | 3.0 | | |
| Learning profile | academic | Assessment form | | | credit | | |
| Conducting unit | | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr Aleksandra Gus-Puszczewicz | | | | |
| | Teachers | | | | | | |
| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 0.0 | 15.0 | 0.0 | 0.0 | 0.0 | 15 |
| | 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 | 15 | | 0.0 | | 0.0 | 15 |
| Subject objectives | To familiarize students with the specificity and principles of transport infrastructure development. To familiarize students with contemporary problems in the development of transport infrastructure and transport technology in Poland against the background of European trends. Ability to critically assess the effectiveness of the implemented transport infrastructure development policy in Poland. | | | | | | |

| Learning outcomes | Course outcome | Subject outcome | Method of verification |
|-------------------|--|--|---|
| | [EKONL3_U03] is able to analyse the causes and course of specific economic and social processes and phenomena, and accurately analyse these phenomena using adequate methods and tools economic and social | The student is able to analyze, using appropriate economic methods, the condition and needs in the development of transport infrastructure and technology | [SU1] oral statement/conversation/discussion [SU5] implementation of a problem task |
| | [EKONL3_K01] recognises the importance of economic knowledge in identifying and solving economic problems and of consulting experts when difficulties in solving them independently | the student has the competence to properly identify problems related to the development of transport infrastructure and transport technologies and also understands the need to use expert opinions in relation to complex cases | [SK1] oral statement/conversation/discussion [SK5] implementation of a problem task |
| | [EKONL3_W09] has in-depth knowledge of the evolution of theories describing economic entities and organisations as well as public institutions, and is familiar with the functional links within them | The student has advanced theoretical knowledge in relation to the specificity of transport infrastructure, interdependencies occurring in the process of its development and the principles to be followed in the development of infrastructure and technology in transport | [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report |
| | [EKONL3_K02] is aware of the level of knowledge in the field of economics and understands the need to deepen and update this knowledge throughout life | The student understands the need to supplement and verify his knowledge in the field of conditions and level of development of infrastructure and technologies in transport | [SK1] oral statement/conversation/discussion |
| | [EKONL3_K04] is willing to think and act in an entrepreneurial manner; adapts to new situations and conditions, takes on the challenges of creative thinking, is resilient in the face of failure, is able to identify risks and assess the risks of failure | The student has the competence to identify the causes of errors in the process of development of transport infrastructure and is able to diagnose threats related to inappropriate policy for the development of infrastructure and technology in transport | [SK1] oral statement/conversation/discussion [SK5] implementation of a problem task |
| | [EKONL3_U02] is able to use the knowledge of theory and data to analyse concrete economic and social processes and phenomena and to analyse these phenomena using methods developed in economics, finance and management sciences | Based on the acquired theoretical knowledge, the student has the ability to obtain data and information necessary to analyze the condition and needs in the development of infrastructure and technologies in transport and use appropriate scientific methods for this purpose. | [SU1] oral statement/conversation/discussion [SU5] implementation of a problem task |
| | [EKONL3_U08] has the ability to observe, understand and analyse economic and social phenomena and processes using appropriate scientific methods | The student has the ability to understand and interpret the conditions for the development of infrastructure and technology in transport | [SU1] oral statement/conversation/discussion [SU5] implementation of a problem task |
| | [EKONL3_W02] has advanced knowledge of the different types of existing business entities and organisations and public institutions | The student has knowledge of economic entities and organizations as well as public institutions responsible for transport infrastructure management and technology development | [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report |
| | [EKONL3_W03] has advanced knowledge of the relations between economic agents and social organisations operating in the national, international and intercultural arenas | The student has knowledge of the entities responsible for the condition and directions of development of transport infrastructure at the national and international level and has knowledge of the standards and directions of infrastructure development and technology in transport. | [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report |

| Subject contents | <p>1. The specificity of transport infrastructure as a determinant of transport development (essence, importance of infrastructure as the basis for socio-economic development, technical and economic features of transport infrastructure, principles of transport infrastructure development).</p> <p>2. Interdependencies and models of transport infrastructure development.</p> <p>3. The state and directions of development of transport infrastructure in Europe (socio-economic effects of the development of transport infrastructure, international conflicts in the process of development of transport infrastructure, the process of unification of transport networks in Europe, TEN networks, core network, transport corridors, sources of financing the development of transport infrastructure).</p> <p>4. Condition and directions of development of transport infrastructure in Poland (condition of transport infrastructure in Poland in the light of European trends, effects of the current state of infrastructure, development problems. trends in the development of road infrastructure, railway infrastructure, inland waterways, directions of development of point infrastructure in transport).</p> <p>5. Directions of development of cargo transport technologies within individual modes of transport (transport process and technological process, transport technologies in road, rail and water transport).</p> <p>6. Directions of development of combined transport as an environmentally friendly transport technology (multimodal and intermodal transport, definition and types of combined transport, premises for the development of combined transport, forms of rail-road transport, development of combined transport in Europe, problems of the development of combined transport in Poland).</p> <p>The student is preparing a project on the subject of investments in transport infrastructure, the details of the project, emerging difficulties, and the final approval of the work occurs during consultations with the instructor</p> | | | | | | | | |
|---------------------------------|---|--|--|--------------------------|-------------------|-------------------------------|--------------|-------|--------|
| Prerequisites and co-requisites | Knowledge of basic economic categories in the field of transport | | | | | | | | |
| Assessment methods and criteria | <table border="1" data-bbox="448 1173 1489 1240"> <thead> <tr> <th data-bbox="448 1173 798 1205">Subject passing criteria</th> <th data-bbox="802 1173 1141 1205">Passing threshold</th> <th data-bbox="1145 1173 1489 1205">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="448 1205 798 1240">all the time</td> <td data-bbox="802 1205 1141 1240">51.0%</td> <td data-bbox="1145 1205 1489 1240">100.0%</td> </tr> </tbody> </table> | | | Subject passing criteria | Passing threshold | Percentage of the final grade | all the time | 51.0% | 100.0% |
| Subject passing criteria | Passing threshold | Percentage of the final grade | | | | | | | |
| all the time | 51.0% | 100.0% | | | | | | | |
| Recommended reading | Basic literature | <p>1. K. Wojewódzka-Król, R. Rolbiecki (2018), Infrastruktura transportu. Europa, Polska - teoria i praktyka, Wydawnictwo Naukowe PWN, Warszawa</p> <p>2. Transport, tendencje zmian (2022), pod red. K. Wojewódzkiej-Król, E. Załgi, PWN, Warszawa</p> <p>3. R. Rolbiecki, K. Wojewódzka-Król, A. Gus-Puszczewicz (2020), Transport wodny śródlądowy w zrównoważonym rozwoju, Wydawnictwo UG, Gdańsk</p> <p>4. Technologie transportowe (2015), red. L. Mindur. Radom</p> | | | | | | | |

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| | Supplementary literature | <p>1. Uchwała Rady Ministrów nr 105 z dnia 24 września 2019 r. w sprawie przyjęcia "Strategii Zrównoważonego Rozwoju Transportu do 2030 roku", M.P. 2019 poz. 1054, http://isap.sejm.gov.pl/isap.nsf/DocDetails.xsp?id=WMP20190001054</p> <p>2. The European Green Deal, Communication from the Commission to the European Parliament (2019), the European Council, the Council, the European Economic and Social Committee and the Committee of the Regions, European Commission, Brussels, com/2019/640 final, https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1576150542719&uri=COM%3A2019%3A640%3AFIN</p> <p>3. R. Rolbiecki, K. Wojewódzka-Król (2018), Dolna Wisła jako element infrastruktury transportu na zapleczu portu morskiego Gdańsk, Studia i Prace Kolegium Zarządzania i Finansów. z. 166.</p> <p>4. Innowacje w transporcie (2024), pod red. K. Wojewódzkiej-Król, PWN</p> |
| Example issues/ example questions/ tasks being completed | eResources addresses | |
| Work placement | Not applicable | |

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