University of Gdańsk

Subject card

| | | | |
|---|---|---|---|
| Subject name and code | Sustainable Urban Mobility, PG_00119293 | | |
| Field of study | Economics | | |
| Date of commencement of studies | October 2023 | Academic year of realisation of subject | 2024/2025 |
| Education level | postgraduate studies | Subject group | |
| 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 | 2.0 |
| Learning profile | academic | Assessment form | |
| Conducting unit | Katedra Rynku Transportowego -> Faculty of Economics | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr hab. Marcin Wołek | |
| | Teachers | dr hab. Marcin Wołek | |

**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 the student with the concept of sustainable mobility.Indication of the connections between spatial planning and transport.Presentation of the sustainable mobility planning process along with selected analytical methods.Presenting to the Student how to monitor the mobility plan

| Learning outcomes | Course outcome | Subject outcome | Method of verification |
|---|---|---|---|
| | [EKONMU2_K04] is ready to think and act in an entrepreneurial manner; adapts to new situations and conditions; undertakes challenges of creative thinking; acquires resilience to failures; can assess risks and threats and find ways of counteracting their effects | Using economic instruments, the student can critically analyze strategic documents referring to sustainable mobility. | [SK1] oral statement/conversation/ discussion<br>[SK2] presentation/project/paper/ report |
| | [EKONMU2_W07] has an in-depth knowledge of economic and financial principles governing the functioning and management of economic entities and organisations, as well as of systems of legal, organisational, professional, moral and ethical norms and rules organising public structures and institutions, both in the national and international spheres | The student is able to use interdisciplinary knowledge to interpret complex social, economic, and spatial phenomena that are analyzed in the process of planning sustainable mobility. | [SW1] oral statement/ conversation/discussion |
| | [EKONMU2_U06] can practically apply various forms and range of acquired knowledge in economics, finance and management, supplementing it with an independent critical analysis of its efficiency and usefulness | The student can assess the most important elements of the sustainable mobility planning process. | [SU1] oral statement/conversation/ discussion<br>[SU2] presentation/project/paper/ report |
| | [EKONMU2_U08] can independently analyse economic and social phenomena and processes, and can perform a theoretically deepened assessment of such phenomena, using appropriately selected research method | The student can assess individual elements included in planning sustainable mobility. | [SU1] oral statement/conversation/ discussion<br>[SU2] presentation/project/paper/ report |
| | [EKONMU2_K03] inspires and organises preparation of economic and social projects, following the idea of sustainable development, reconciling legal, economic, ecological, political and social requirements | The student can prepare a project based on economic theories relating to sustainable development. | [SK1] oral statement/conversation/ discussion<br>[SK2] presentation/project/paper/ report |
| | [EKONMU2_W03] has an in-depth knowledge of relations between economic phenomena, entities and organisations as well as public institutions functioning in the national, international and intercultural spheres | The student can identify the most important connections and stakeholders for sustainable mobility planning. | [SW1] oral statement/ conversation/discussion<br>[SW2] presentation/project/paper/ report |

| | |
|---|---|
| Subject contents | 1. Sustainable mobility as a response to global challenges 1.1. Environmental reasons for planning sustainable mobility 1.2. Spatial structures and transport 1.3. EU legal framework<br><br>2. Case study: Sustainable urban mobility planning process 2.1. Identification and diagnosis of stakeholders 2.2. Development of scenarios 2.3. Vision, goals, action plan and monitoring<br><br>3. Active mobility in sustainable mobility planning 3.1. Pedestrian traffic 3.2. Cycling traffic 3.3. Active mobility in mobility chains<br><br>4. Car in the city 4.1. Traffic optimization 4.2. City logistics and freight transport 4.3. Reducing the impact of motoring on the environment<br><br>5. Public transport - the basis of sustainable urban mobility 5.1. Public transport and urban development 5.2. Public transport means and their features 5.3. New trends in the development of public transport<br><br>6. Selected methods for analyzing sustainable mobility 6.1. Environmental approach 6.2. Spatial approach 6.3. Economic and social approach<br><br>7. Sustainable mobility globally 7.1. Trends in air transport |
| 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>Project</td><td>60.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>1. Guidelines for developing and implementing a Sustainable Urban Mobility Plan (2nd edition), available online: https://www.eltis.org/sites/default/files/sump_guidelines_2019_interactive_document_1.pdf 2.<br><br>S. Miecznikowski, T. Radzikowski, M. Wołek: Stan i potencjał rozwojowy kolejowych korytarzy intermodalnych w Polsce w kontekście Inicjatywy Pasa-Drogi. Wyd. UG, Gdańsk 2021 (książka tylko w wersji elektronicznej) 3.<br><br>M. Wołek et al.: Ensuring sustainable development of urban public transport: a case study of the trolleybus system in Gdynia and Sopot (Poland). "Journal of Cleaner Production" 2021 vol. 279 4.<br><br>Selected articles from journals, including "PLOS One", "Transportation Research", "Sustainability", "Energy Policy".</td></tr>
<tr><td>Supplementary literature</td><td>1. Planning and Design for Sustainable Urban Mobility: Global Report on Human Settlements 2013. Available online: https://unhabitat.org/sites/default/files/download-manager-files/Planning%20and%20Design%20for%20Sustainable%20Urban%20Mobility.pdf<br><br>2. M. Wołek, A. Jagiełło, M. Wolanski: Multi-criteria analysis in the decision-making process on the electrification of public transport in cities in Poland: a case study analysis. "Energies" 2021 vol. 14 nr 19</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">Monitoring assessment of the Sustainable Urban Mobility Plan.</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
</table>

Document generated electronically. Does not require a seal or signature.