



Subject card

| | | | | | | | |
|---|---|--|-------------------------------------|------------|--|---------|-----|
| Subject name and code | Modes of transport, PG_00064172 | | | | | | |
| Field of study | Transport | | | | | | |
| Date of commencement of studies | October 2024 | Academic year of realisation of subject | | | 2024/2025 | | |
| Education level | first-cycle studies | Subject group | | | Obligatory subject group in the field of study 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 | | | 3.0 | | |
| Learning profile | general academic profile | Assessment form | | | assessment | | |
| Conducting unit | Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr hab. inż. Jacek Oskarbski | | | | | |
| | Teachers | dr hab. inż. Jacek Oskarbski dr inż. Zbigniew Kędra mgr inż. Łukasz Jeliński mgr inż. Konrad Biszko | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 15.0 | 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 | 5.0 | | 40.0 | | 75 |
| Subject objectives | Acquire knowledge of the use of modern means of transport including technological and organisational solutions. | | | | | | |

| | | | |
|--|---|---|---|
| Learning outcomes | Course outcome | Subject outcome | Method of verification |
| | [K6_K01] able to think and act creatively and enterprisingly; able to define priorities to support the delivery of an individual or group task; understands the need for continuous education and taking responsibility as a professional for their work and the work of the team | Ability to think and act creatively, and entrepreneurially; ability to prioritise to complete an individual or group task; understanding of the need for continuous learning and professional responsibility for one's own and the team's activities. | [SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work [SK2] Assessment of progress of work [SK1] Assessment of group work skills |
| | [K6_W02] has knowledge of physics, mechanics, electrical engineering, hydromechanics, thermodynamics, materials science, and measurement techniques necessary to understand the phenomena occurring in transportation, as well as the principles of construction and operation of infrastructure and means of transport | Acquiring knowledge of physics, mechanics, electrotechnics, hydromechanics, thermodynamics, material science and measurement techniques necessary for understanding transport phenomena and the principles of construction and operation of infrastructure and means of transport | [SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge |
| [K6_U03] able to document a self-elaborated transport problem and present it in Polish and a foreign language, draft and read technical drawings | Ability to document and present in Polish and foreign language a problem developed by him/her in the field of means of transport, to prepare and read technical drawings. | [SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment | |
| Subject contents | MaaS (Mobility as a Service). Collaborative systems (CITS). Applications in transport management. Decision support and vehicle security systems. Support for transport safety management systems. | | |
| Prerequisites and co-requisites | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Pass workshops | 90.0% | 40.0% |
| | Pass the lectures | 60.0% | 60.0% |
| Recommended reading | Basic literature | Cooperative Intelligent Transport Systems: Towards high level automated driving. Meng Lu. 2019. | |
| | Supplementary literature | <p>Strony internetowe i czasopisma: IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, IEEE TRANSPORTATION RESEARCH, PART C: EMERGING TECHNOLOGIES, PERGAMON-ELSEVIER SCIENCE DIRECT, JOURNAL OF INTELLIGENT TRANSPORTATION SYSTEMS, TAYLOR & FRANCIS INTERNATIONAL JOURNAL OF VEHICLE INFORMATION AND COMMUNICATION SYSTEMS, INDERS SCIENCE ENTERPRISES, IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, IEEE</p> | |
| | eResources addresses | <p>Adresy na platformie eNauczenie: Środki transportu 2024/25 Transport - Moodle ID: 42562 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=42562</p> | |
| Example issues/ example questions/ tasks being completed | What are the considerations for MaaS implementations. How MaaS differs from TMaaS. Examples and effects of C-ITS applications in transport management. | | |
| Work placement | Not applicable | | |

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