



## Subject card

|                                             |                                                                                                                                                                                                                 |                                                          |                                                                                                                                                                                        |                                     |                                                                                                                                                                   |            |     |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | , PG_00069816                                                                                                                                                                                                   |                                                          |                                                                                                                                                                                        |                                     |                                                                                                                                                                   |            |     |
| Field of study                              | Transport                                                                                                                                                                                                       |                                                          |                                                                                                                                                                                        |                                     |                                                                                                                                                                   |            |     |
| Date of commencement of studies             | February 2026                                                                                                                                                                                                   |                                                          | Academic year of realisation of subject                                                                                                                                                |                                     | 2026/2027                                                                                                                                                         |            |     |
| Education level                             | second-cycle studies                                                                                                                                                                                            |                                                          | Subject group                                                                                                                                                                          |                                     |                                                                                                                                                                   |            |     |
| Mode of study                               | Full-time studies                                                                                                                                                                                               |                                                          | Mode of delivery                                                                                                                                                                       |                                     | at the university                                                                                                                                                 |            |     |
| Year of study                               | 1                                                                                                                                                                                                               |                                                          | Language of instruction                                                                                                                                                                |                                     | Polish                                                                                                                                                            |            |     |
| Semester of study                           | 2                                                                                                                                                                                                               |                                                          | ECTS credits                                                                                                                                                                           |                                     | 3.0                                                                                                                                                               |            |     |
| Learning profile                            | general academic profile                                                                                                                                                                                        |                                                          | Assessment form                                                                                                                                                                        |                                     | assessment                                                                                                                                                        |            |     |
| Conducting unit                             | Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology                                                                      |                                                          |                                                                                                                                                                                        |                                     |                                                                                                                                                                   |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                              |                                                          | dr hab. inż. Joanna Żukowska                                                                                                                                                           |                                     |                                                                                                                                                                   |            |     |
|                                             | Teachers                                                                                                                                                                                                        |                                                          |                                                                                                                                                                                        |                                     |                                                                                                                                                                   |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                                                     | Lecture                                                  | Tutorial                                                                                                                                                                               | Laboratory                          | Project                                                                                                                                                           | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                           | 15.0                                                     | 0.0                                                                                                                                                                                    | 15.0                                | 15.0                                                                                                                                                              | 0.0        | 45  |
|                                             | 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                                                                                                                                                                                           | 45                                                       |                                                                                                                                                                                        | 0.0                                 |                                                                                                                                                                   | 0.0        | 45  |
| Subject objectives                          | Equip students with the knowledge and skills necessary to effectively plan, implement and manage mobility systems in a variety of contexts.                                                                     |                                                          |                                                                                                                                                                                        |                                     |                                                                                                                                                                   |            |     |
| Learning outcomes                           | Course outcome                                                                                                                                                                                                  |                                                          | Subject outcome                                                                                                                                                                        |                                     | Method of verification                                                                                                                                            |            |     |
|                                             | [K7_W01] identifies in an in-depth way phenomena related to the field of study as well as theories describing them and possible methods of analyzing processes occurring in the life cycle of technical systems |                                                          | Understand the significance of transportation engineering in addressing the operational issues of transportation systems in cities.                                                    |                                     | [SW2] Assessment of knowledge contained in presentation<br>[SW3] Assessment of knowledge contained in written work and projects                                   |            |     |
|                                             | [K7_U05] cooperates with other people in the implementation of team work, both as a leader and a team member, effectively achieving set goals                                                                   |                                                          | Is able to work in a team, completing tasks in a coordinated manner to achieve a cohesive mobility project.                                                                            |                                     | [SU1] Assessment of task fulfilment<br>[SU2] Assessment of ability to analyse information<br>[SU3] Assessment of ability to use knowledge gained from the subject |            |     |
|                                             | [K7_K01] recognizes the importance of knowledge related to the field of study in solving cognitive and practical problems                                                                                       |                                                          | Knows and understands the interdependence of the transportation system and quality of life. Possesses knowledge of the planning and management procedures for mobility in urban areas. |                                     | [SK4] Assessment of communication skills, including language correctness<br>[SK1] Assessment of group work skills                                                 |            |     |

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| Subject contents                | <p>Course content – lecture</p> <p>Mobility management in companies, Urban mobility planning, Sustainable urban mobility plans, Mobility management policies and regulations, Active mobility, Public transport, Mobility of people with special needs, Parking management, Mobility and road safety, Mobility management in crisis situations, Mobility as a service, Future technologies in mobility management, Summary and future of mobility management</p>                                                                                                                                                                                                                                                                                                                       |                   |                               |
|                                 | <p>Course content – laboratory</p> <p>Literature studies on guidelines for creating mobility plans. Analysis of sample mobility plans. Presentation of selected studies.<br/> Identification of problems for a selected facility and district.<br/> Preparation of a mobility plan outline in accordance with the guidelines.<br/> Preparation of a survey for the purposes of preparing a mobility plan.<br/> Site visit, photographic documentation, verification of problems to be solved with the help of the mobility plan and opportunities for effective implementation of the plan.<br/> Discussion on mobility solutions (e.g., information campaigns, infrastructure development, use of innovative solutions).<br/> Preparation and presentation of own mobility plans.</p> |                   |                               |
|                                 | <p>Course content – project</p> <p>Literature studies on guidelines for creating mobility plans. Analysis of sample mobility plans. Presentation of selected studies.<br/> Identification of problems for a selected facility and district.<br/> Preparation of a mobility plan outline in accordance with the guidelines.<br/> Preparation of a survey for the purposes of preparing a mobility plan.<br/> Site visit, photographic documentation, verification of problems to be solved with the help of the mobility plan and opportunities for effective implementation of the plan.<br/> Discussion on mobility solutions (e.g., information campaigns, infrastructure development, use of innovative solutions).<br/> Preparation and presentation of own mobility plans.</p>    |                   |                               |
| Prerequisites and co-requisites |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                               |
| Assessment methods and criteria | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Passing threshold | Percentage of the final grade |
|                                 | Lecture (written test)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 50.0%             | 50.0%                         |
|                                 | Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 50.0%             | 50.0%                         |

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|----------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recommended reading                                            | Basic literature                                       | <p>1. "Transport Planning and Traffic Engineering" - C. A. O'Flaherty</p> <p>2. "Urban Transport Systems: Choices for Communities" - David A. Hensher, Kenneth J. Button</p> <p>3. "Sustainable Transportation: Problems and Solutions" - William R. Black</p> <p>4. "Mobility as a Service (MaaS): The Road to Public Transport 2.0" - David A. Hensher, Corinne Mulley</p> <p>5. "Intelligent Transport Systems: Technologies and Applications" - Asier Perallos, Unai Hernandez-Jayo, Enrique Onieva, Ignacio Julio Garcia Zuazola</p> <p>6. "Transport and Climate Change" - Tim Ryley, Lee Chapman</p> <p>7. "Parking: Issues and Policies" - Stephen Ison, Corinne Mulley</p> <p>8. "Road Safety Management: The Safe System Approach" - Ian Johnston, Carlyn Muir, Eric Howard</p> <p>9. "Active Transportation: Making the Link from Transportation to Physical Activity and Public Health" - Jennifer Dill, Susan L. Handy</p> |
|                                                                | Supplementary literature                               | <p>1. Guidelines for the integration of Mobility Management with Land Use Planning. Project MaxLupo. FR6. 2009</p> <p>2. Rupprecht Consult (editor), Guidelines for Developing and Implementing a Sustainable Urban Mobility Plan, Second Edition, (2019)</p> <p>3. Šmid P., Lukešowá P., Mourek D.: Plany mobilności, Fundacja Partnerstwa dla Środowiska, Kraków 2011</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                | eResources addresses                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Example issues/<br>example questions/<br>tasks being completed | Develop a mobility plan for a selected public facility |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Practical activities within<br>the subject                     | Not applicable                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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