



## Subject card

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                          |                                                                                                                                                                                                                                       |                                     |                                                                                                                   |            |     |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Psychology in transportation, PG_00064272                                                                                                                                                                                                                                                                                                                                                                                                   |                                                          |                                                                                                                                                                                                                                       |                                     |                                                                                                                   |            |     |
| Field of study                              | Transport                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                          |                                                                                                                                                                                                                                       |                                     |                                                                                                                   |            |     |
| Date of commencement of studies             | October 2025                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          | Academic year of realisation of subject                                                                                                                                                                                               |                                     | 2026/2027                                                                                                         |            |     |
| Education level                             | first-cycle studies                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                          | Subject group                                                                                                                                                                                                                         |                                     | Obligatory subject group in the field of study<br>Humanistic-social 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                           | 3                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                          | ECTS credits                                                                                                                                                                                                                          |                                     | 2.0                                                                                                               |            |     |
| Learning profile                            | general academic profile                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          | Assessment form                                                                                                                                                                                                                       |                                     | assessment                                                                                                        |            |     |
| Conducting unit                             |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                          |                                                                                                                                                                                                                                       |                                     |                                                                                                                   |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                          | Irena Leszczyńska                                                                                                                                                                                                                     |                                     |                                                                                                                   |            |     |
|                                             | Teachers                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          |                                                                                                                                                                                                                                       |                                     |                                                                                                                   |            |     |
| Lesson types                                | 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                                                       |                                                                                                                                                                                                                                       | 2.0                                 |                                                                                                                   | 18.0       | 50  |
| Subject objectives                          | To recognise basic psychological aspects in transport user behaviours                                                                                                                                                                                                                                                                                                                                                                       |                                                          |                                                                                                                                                                                                                                       |                                     |                                                                                                                   |            |     |
| Learning outcomes                           | Course outcome                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          | Subject outcome                                                                                                                                                                                                                       |                                     | Method of verification                                                                                            |            |     |
|                                             | [K6_W06] has knowledge to understand transportation development planning considering economic, spatial, ecological, and social conditions and the consequences of transportation activities                                                                                                                                                                                                                                                 |                                                          | The student understands the psychological factors influencing the behaviour of transport system users and can explain their relevance for diagnosing safety issues and evaluating transport system functioning in its social context. |                                     | [SW1] Assessment of factual knowledge                                                                             |            |     |
|                                             | [K6_U01] able to use technical documentation and literature, databases and other sources of transport related information; able to interpret information, make logical links and formulate opinions and conclusions based on the above                                                                                                                                                                                                      |                                                          | The student can analyse materials related to user behaviour, interpret psychological and behavioural data, and formulate conclusions regarding safety and the functioning of transport systems.                                       |                                     | [SU2] Assessment of ability to analyse information                                                                |            |     |
|                                             | [K6_K02] understands the need to formulate and communicate to the public information and opinions on the achievements of environmental engineering and other aspects of work of a sanitary industry engineer; is aware of the importance of and understands non-technical aspects and consequences of engineering; takes steps to communicate such information and opinions in a comprehensible manner and present different points of view |                                                          | The student is able to clearly communicate risks related to human error and unsafe behaviour, and to explain psychological mechanisms affecting transport safety while considering diverse user perspectives.                         |                                     | [SK1] Assessment of group work skills<br>[SK4] Assessment of communication skills, including language correctness |            |     |

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| Subject contents                        | Course content – lecture<br>Fundamentals of transport psychology<br><br>Psychological profile of drivers<br><br>Methodology of psychological tests in transport psychology<br><br>Road accidents and prevention<br><br>Medical problems and driving                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                         |                               |
|                                         | Course content – exercises<br>Students analyze real traffic situations and identify perceptual, cognitive, and emotional errors made by road users. They perform short tests and simulations related to attention, reaction time, stress, and cognitive workload. Students work with case studies of accidents and incidents to learn how to recognize psychological causes of such events. Additionally, they develop simple solutions aimed at improving the safety and comfort of transport users. |                                                                                                                                                                                                                         |                               |
| Prerequisites and co-requisites         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                         |                               |
| Assessment methods and criteria         | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Passing threshold                                                                                                                                                                                                       | Percentage of the final grade |
|                                         | exercises                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 50.0%                                                                                                                                                                                                                   | 100.0%                        |
| Recommended reading                     | Basic literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Psychology of risk behaviours in road traffic. Ewa Odachowska, ITS<br><br>Bak J.; Bąk-Gajda D.: Transport psychology nad road safety. Difin 2010                                                                        |                               |
|                                         | Supplementary literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1. Shinar, D. <i>Traffic Safety and Human Behavior</i> . Emerald Publishing.<br><br>2. Reason, J. <i>Human Error</i> . Cambridge University Press.<br><br>3. Evans, L. <i>Traffic Safety</i> . Science Serving Society. |                               |
|                                         | eResources addresses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                         |                               |
|                                         | Example issues/<br>example questions/<br>tasks being completed                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                         |                               |
| Practical activities within the subject | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                         |                               |

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