

Topics for the Master's diploma exam

Level of study: **II**

Field of study: **Transport**

Specialisation: **Sustainable Transport**

1. LCA - assumptions and main stages.
2. Product Life Cycle in environmental framework.
3. Methods, that can be used by a traffic generator or city, to make the transport system more sustainable.
4. Comparison of single and multiple criteria optimisation for solving selected decision problems in transport context.
5. The most important systems (strategies) for servicing of transport means.
6. Methods for measuring pollution in the propulsion of road, rail and marine transport units.
7. Identification of the main sources of noise and vibration in rail vehicles, environmental impact and means of reduction.
8. European Union policy towards urban transport.
9. Specify the type of electric vehicle charging standard and the current type with which electric vehicles can be charged using the given connector.
10. Multicriteria decision aiding - the methodology of solving decision aiding problems, classification of methods and their application in transport.
11. What does public transport integration mean?
12. Four stage traffic macrosimulation model - the general idea and goals of each stage.
13. The development and importance of SMEs in the modern market economy.
14. Internal and external sources of financing activity and development of the company.