

Field of Study 10 - Transportation Engineering and Control

Master of Science in Environmental Engineering

Students of this FoS are acquiring competences in the area of short term mobility decisions and traffic phenomena and their impact on emissions, traffic safety and traffic efficiency. They develop tactical and technological measures by the means of Intelligent Transport Systems in order to influence traffic and mobility with respect to the goals of a holistic and sustainable traffic management. The measures span from mobility pricing schemes, urban traffic control, acceleration of public transport services up to vehicle automation and eco-sensitive traffic management. They can model the interactions of traffic management and traffic conditions on microscopic and mesoscopic level.

Required Modules

- BV560024 Traffic Management
- BV560023 Intelligent Transport Systems

Elective Modules

- BV520009 Project Appraisal and Planning Processes in Transportation
- NN System Engineering in Transportation
- BV340019 Road and Rail Design
- BV560005 Intelligent Vehicles
- BV560007 Traffic Flow Simulation
- BV560019 Applied Traffic Engineering and Planning
- BGU56041 Transport Planning and Traffic Engineering Concepts for Electric Mobility
- BGU56035 Practical Applications of Traffic Control Methods
- BV560030 Collection and Processing of Measurement Data for Traffic Information and Navigation
- NN Microscopic Modelling of Traffic Emissions

Pending module codes will be updated before the beginning of the semester.