



Catedra UNESCO



GREEN, SMART AND INTEGRATED TRANSPORT AND LOGISTICS

Study field: Transport Engineering

Description

Green, Smart and Integrated Transport and Logistics (GSITL), equips graduates with: a holistic understanding of different technology options and methods; cross-disciplinary abilities for environment, IT, project management and transport systems; the main necessary competences to develop, analyze and manage innovative and advanced sustainable systems for transport and logistics. The knowledge acquired during this master programme in transport solutions, software technology, financial management, operations management, planning and optimization provide students with the necessary competences for development of sustainable transportation and logistic, and consequently, the qualified graduates will ensure transport system going forward.

Relevance to the labor market

The graduates of this master programme could have a professional career in sustainable transport and logistic industry, having occupations as: enviromental analyst, pollution engineer, enviromental protection professional, transport operations manager, specialist in smart transport technologies, logistics management.

Learning outcomes:

- Knowledge and skills for international sustainable transport and logistics.
- Extensive knowledge of smart, green and integrated transport solutions as well as logistics.
- Skills in software technology, data science, planning methods, airport operations, assessment and transport management, logistic optimization.
- Skills in research, technology management and leadership, pre-requisite for career progression in international sustainable transport and logistic industry.

Disciplines

YEAR 1

- Data analysis and statistics
- Economic and financial analysis
- Green technologies in transport systems
- Organizational behaviour, HR and intercultural management
- E-commerce and transport marketing
- Intermodal transportation
- Sustainable ransport and Logistics Management
- Knowledge management and innovation in transport Services
- Project management
- Quality-security-environment in transport services
- Safety management systems
- Optimization in air transport
- Sustainable urban transportation and mobility

YEAR 2

- Regulatory policies and transport law
- Strategic management in transport
- Air transport operations
- Intelligent transport systems and ICT
- Optional:
- Aviation and environment
- Sustainable management and infrastructure of airports
- Green vehicles
- Advanced operations in terminals

During this master's program, students will undertake scientific research in the field of sustainable transport development and the logistics industry in cooperation with professionals from national and international institutions

Research topics

- Urban logistics to reduce gas emissions
- Air transport contribution to greenhouse gas emissions, compared to agriculture contribution
- Technology implementation and infrastructure planning for transforming airports into autonomous energy entities
- Sustainable urban mobility
- The importance of continuous training and development of staff in the airport modernization
- Connected vehicles – impact on traffic safety, emissions reduction and car sharing services.
- Green logistics and sustainable development

Other information of interest

The study program is carried out with UPB teachers, with experts from industry and research, such as: COMOTI, CFR, MENZIES and air transport international bodies as: ICAO, ACI, in accordance with the UNESCO mission to provide international education for sustainable development.

Language of instruction: English

Duration: 2 years

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