



MASTER PROGRAMME

Green, Smart and Integrated Transport and Logistics

Why sustainable transport and logistics?

Transport constitutes a very large and increasing part of the economy, and continued well-being and economic growth requires an efficient transport system. Efficient and sustainable transport and logistics are key elements in the development of a modern society.

In the light of the expected land, sea and air transport growth and the logistical challenges involved, the engineers face a considerable task ensuring fast and cheap transport of goods and people in the future with minimal resource consumption.



- **Language: English**
2 years (4 semesters)
ECTS :120
- **Number of allocated places:**
30 without tuition fees,
20 with tuition fees
- **2 full scholarships for African students**

WE WILL PROVIDE YOU WITH..

A holistic understanding of different technology options and methods, cross-disciplinary abilities, all the necessary competences to develop, analyze and manage innovative and advanced sustainable systems for transportation and logistics.

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, operations research, assessment and management.
- Skills in research, technology management and leadership, pre-requisite for career progression in international sustainable transport industry.

CAREER PROSPECTS



- Environmental protection professional
- Sustainable transport specialist
- Smart transport planner
- Pollution engineer
- Environmental Analyst
- Logistics Management
- Logistics Development Specialist
- Transport Operations Manager
- Specialist in intelligent technologies for optimizing and reducing the impact of transport

Coordinator of master programme:
University Professor
Sorin Eugen Zaharia, Ph.D.

Characteristics:

- ↳ The study program will be carried out in partnership with **foreign universities**, in line with **UNESCO's** mission to provide **education for sustainable development**.
- ↳ First-hand experience of different European planning and practices on sustainable transport development, delivered by an **international interdisciplinary group of professors and lecturers combined with professional practice**: *Constantin Brătianu, Mihnea Costoiu, George Firican, Cătălin Radu, Mihaela Popa, Dorinela Costescu, Florin Rădulescu and others.*

What will you learn as a student in this Master program ?

The study program will be conducted in situ or online, in English, with the participation of specialists in the field, using state-of-the-art optimization tools, sustainable planning instruments, advanced modelling techniques, robust evaluation methods etc.

Furthermore, the flexibility of the study program allows combining the specialized skills with other skills and areas that are highly demanded by the industry globally.

☑ Registration:

🕒 1-10 July 2019 🕒

🕒 Examination:

11-12 July 2019

Location for registration:

UNESCO Department
"Engineering for Society",
floor 7, room 709

University POLITEHNICA
of Bucharest,
CAMPUS Building

For information and registration:

Web-site: www.upb.ro

www.unesco.chair.upb.ro

Telephone: +40 214029097

+40 214029096

E-mail: unesco.office@upb.ro

YEAR 1

- Data analysis and statistics
- Economic and Financial Analysis
- Quality-security-environment in transport services
- Organizational Behaviour, HR and Intercultural management
- E-commerce and Transport Marketing
- Project management
- Scientific research

- Sustainable Transport and Logistics Management
- Knowledge Management and Innovation in Transport Services
- Green technologies in transport systems
- Intermodal transportation
- Scientific research
- **Optional 1:**
 - Safety management systems/
 - Optimization in air transport
- **Optional 2:**
 - Road and Rail safety
 - Sustainable Urban Transportation and mobility

YEAR 2

- Regulatory policies and Transport Law
- Strategic management in Transport
- Scientific research
- **Optional 1:**
 - Aviation and environment
 - Sustainable management and infrastructure of airports
 - Air transport operations
 - ICT in Air Transport
- **Optional 2:**
 - Transportation and Land-Use Integration
 - Green vehicles
 - Advanced Operations in Terminals
 - Intelligent Transport Systems and ICT
- Scientific research and dissertation development
- Ethics

* Students will choose from the first year one of the two packages of optional courses, which will continue in the second year.

General admission requirements:

Applicants must hold a Bachelor degree.

- ❖ The admission requirements for Romanian students are described at: <https://upb.ro/admitere/>
- ❖ The admission requirements for foreign students are described at: <http://international.upb.ro/>



Location: University POLITEHNICA of Bucharest, 313 Independentei Avenue, Sector 6,
CAMPUS Building, floor 7, room 709
Postal cod: RO-060042, Bucharest, Romania