



JOINT MASTER'S DEGREE IN
**Sustainable
and Resilient
Pavement
Engineering**

www.surpave.eu

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Start September 2026
UNDER APPROVAL
Submission Applications
1 September 2025 – 28 February 2026
via www.surpave.eu

Programme developed by a consortium of 4 universities in Belgium, India, Italy and Portugal with the support of Associated Partners worldwide.

ABOUT

About the programme content & mobility



Imagine a career where you can shape the future roads we drive on

SEMESTER 1 - 30 ECTS

Basic Technologies and Research Tools for Pavement (UAntwerp) - Antwerp, Belgium

- Sustainability and Resilience in Project Management (6 EC)
- Introduction to Data Mining, Artificial Intelligence and Digitalization (6 EC)
- Pavement Analysis, Design and Management (6 EC)
- Material Testing and Evaluation (6 EC)
- Elective courses (6 EC)
 1. Acoustics
 2. Debating Development in Global Mobility
 3. Safety and Resilience
 4. Selection by the student

SEMESTER 2 - 30 ECTS

Specialisation module at the partners. The student will choose a specialisation and destination

Track 1: Smart Pavement Engineering (UMinho) Guimarães, Portugal

- Transportation Geotechnics (5 EC)
- Sustainable and Multifunctional Pavement Materials (5 EC)
- Enhanced and Smart Pavement Surface Functions (5 EC)
- Digitalization of Pavement Monitoring (5 EC)
- Highway Environment Management Systems (5 EC)
- Airport and Railways (5EC)

Track 2: Sustainable Pavement Engineering (UNIPA) Palermo, Italy

- Sustainable Transport Infrastructure (6 EC)
- Sustainable Pavement and Embankment Materials (6 EC)
- Circular Life-Cycle Based Pavement Management (6 EC)
- Sustainable Geometric Design Practices (6 EC)
- Smart Solutions for Infrastructure Management (6 EC)

Track 3: SURPAVE Global Perspective (MAHE) Manipal, India

- Advanced Sustainable Pavement Materials and Technologies (6 EC)
- Soil Stabilisation Techniques for Resilient Roads (6 EC)
- Spatial Technology for Smart Roads (6 EC)
- Economic of Eco-friendly Road Infrastructure (6 EC)
- Computer-Aided Road Design (6 EC)

SEMESTER 3 - 30 ECTS

Industrial Training Project and Dissertation Preparation Seminars

- Industrial Training Project (18 EC) – at Associated Partner
- Dissertation preparation Seminars (6 EC) – Online
 - Research and Communication Skills (6 EC) – Online
 - Elective courses (6 EC) - Online
 1. Sustainable Mobility Policies
 2. Theory and Design of Bridges

SEMESTER 4 - 30 ECTS

Dissertation

At any global (Associated) Partner