

# **Blended Intensive Programme**

## **International Railway Technology and Operations + calculation of CO2-Footprint: practical skills for climate change**

**Nov. 11<sup>th</sup> – Dec. 13<sup>th</sup>, 2024**

**UAS St. Poelten, Dept. Rail Technology and Mobility, Austria**

### **Overview**

In this course, participants will gain knowledge on historical background and the state of the art in the field of international railways. They broaden those perspectives in the international railway system operations. They will understand the complexity of interdependencies of subsystems in the railway system and develop an attitude towards the integration of that knowledge in practice. The course is also dedicated to exploring the current international research activities in the field. Moreover, the participants will be able to calculate a carbon footprint using the simple example of their own "living environment" and use the knowledge to apply it in their private/companies use cases.

Fr, 11 Nov. 2024

17:10 – 18:45 (Virtual)

Introduction to BIP during the international week and getting to know each other

Mon, 25 Nov. 2024

08:30 – 09:10 Registration Building A: Main Hall

09:10 – 09:35 – Welcome and getting to know each other

Lecture Hall 3

09:40 – 11:15

History of rail transport and Railway projects in Estonia

Differences in traffic management systems (Austria vs Estonia)

The political context and higher education system in the mobility sector

Lecture Hall 3

11:20 – 12:55

Presentation of Vilnius Gediminas Technical University and Lithuanian railway transport system.

Introduction to Rail Baltic project

Lecture Hall 3

Tue, 26 Nov. 2024

08:00 – 11:00

Railway operations – Railways in Germany

11:15 – 13:00

Group exercises, discussions and presentations

Lecture Hall 3

13:50 – 17:55

Calculation of CO2 – Footprint

Wed, 27 Nov. 2024

Lecture Hall 3

08:00 – 11:00

Railway operations- Railways in Austria

11:15 – 13:00

Group exercises, discussions and presentations

Lecture Hall 3

13:50 – 15:15

The European railway system: Difficult choices – which alternative for which application

15:20 – 17:00

Practical exercises

Thu, 28 Nov. 2024

08:30 – 17:30

Excursion: Mariazellerbahn

Fr, 29 Nov. 2024

09:00 – 12:00

CO2 calculation and assignments

Lecture Hall 3

## **Side Events**

Mo. 25. – 29. Nov. 2024

Lunch and Networking

13:00 – 13:45

Mon, 25 Nov. 2024

13:50 – 15: 30

Guided tour at the St. Pölten University of Applied Sciences

16:30

City Tour St. Pölten

Wed. 29 Nov. 2023

Wed, 27 Nov. 2024

18:00

Conference dinner – lecturers only