

Blended Intensive Programme International Railway Technology and Operations + calculation of CO2- Footprint: practical skills for climate change

Nov. 11th – Dec. 13th, 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.

Mo. 11 Nov. 2024

17:10 – 18:45 (Virtual)

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

Hirut Grossberger

Mon, 25 Nov. 2024

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

Mariam Mosiashvili, International office

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

Hirut Grossberger, Frank Michelberger

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

Mihhail Kirejev

11:20 – 12:30

Creating groups for exercises in each session, digital communication and collaboration tools, digital working platforms

Lecture Hall 3

Tue, 26 Nov. 2024

09:00 – 12:00

Railway operations – Railways in Germany

12:15 – 13:00

Group exercises, discussions and presentations

Phillip Bradt, Robert Bruckner

Lecture Hall 3

13:50 – 15:00

Group exercises, discussions and presentations

15:30 – 17:00

Calculation of CO₂ – Footprint

Hirut Grossberger

Wed, 27 Nov. 2024

09:00 – 10:40

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

Introduction to Rail Baltic project

Viačeslav Petrenko

Lecture Hall 3

10:45 – 13:00

Railway operations- Railways in Austria

Lecture Hall 3

13:50 – 15:30

Railway operations- Railways in Austria

Group exercises, discussions and presentations

Robert Bruckner, Phillip Bradt

15:40 – 18:00

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

Practical exercises

Michael Lehmann

Thu, 28 Nov. 2024

10:00 – 19:30

Excursion: Mariazellerbahn

Fr. 29.11.2024

09:00 – 10:45

Railway system and high-speed railway construction in Czech Republic

Lukas Tittl

11: 00 – 12:30

CO2 calculation and assignments

Hirut Grossberger

Lecture Hall 3

13:00 – 13:45

Farewell Lunch

14:00 – Departure

Fr. 13.12 2024

15:30 – 19:00

Presentation of CO2- Footprint calculations and discussion and reflections

Lecture room: B 1.19 (local students) and MTeams (Incoming students)

Side Events

Mo. 25. – 29. Nov. 2024

Lunch and Networking

13:00 – 13:45

Mon, 25 Nov. 2024

14:00 – 14:15

Group photo- Building B- Main Hall

14:15 – 15: 30

Guided tour at the St. Pölten University of Applied Sciences

16:30 – 18:00

City Tour St. Pölten

Meeting point: Infront of Building B

Wed, 27 Nov. 2024

18:00

Conference dinner – lecturers only