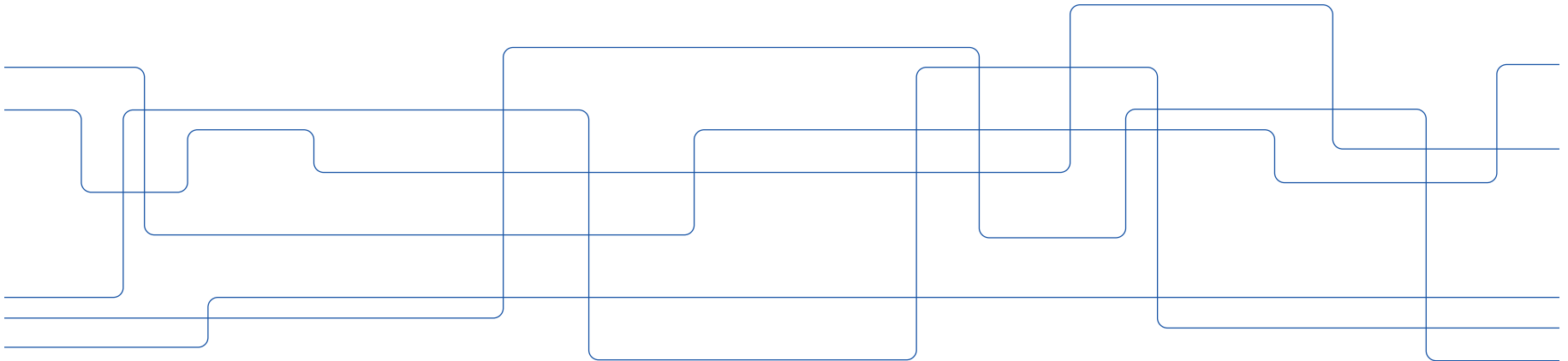




FAG3187: Sustainable Mobility

Course Memo





Course Contents

- The course is built on the fundamental concepts of sustainability and equity applied in transport planning. It will encourage norm critical thinking of traditional and contemporary approaches to mobility with the lens of sustainability and equity. The changing socio-technological landscape will be considered. Evaluation of novel transport solutions and strategies will be discussed using different tools and methods (e.g. scenario analysis, strategy evaluation, backcasting).
- The course will be delivered in a series of lectures on sustainable mobility concepts, theories, methodologies and applications. Students will apply those knowledge in their assignments and present their findings in seminars where peer discussions will be facilitated.



Intended Learning Outcomes

- Critically discuss the opportunities and challenges of ensuring sustainability and equity in transport planning.
- Understand and reflect on the role (or the lack thereof) of gender equality, diversity and equity in transport planning.
- Describe alternative transport futures to meet sustainability goals.
- Apply the tools learned in the course to evaluate a transport strategy or scenario.
- Reflect on their own individual research with the perspective of transport sustainability or transition towards sustainability.



Eligibility

Admission to relevant doctoral program: Approved courses of at least 60 ECT in the subject areas of transportation systems, civil engineering, urban planning, economics, computer science, physics, applied mathematics, or other subjects deemed directly relevant.



Content

- Discussion on sustainable mobility transition policies
 - Digitalization
 - Climate change and energy futures
 - The vehicle industry transition
 - Long distance travel....etc.
- Tools to assess sustainable mobility transition policies and scenarios
 - Forecasting and Backcasting
 - EIA and SEA
- Critical reflection of own research
 - SDGs, AI, Gender, Diversity and Equity



How the course is organized?

Lectures

Building on theoretical knowledge

Seminars

Peer to peer teaching

Presentations

What do you need?

Lectures

Books and articles

Seminars

Critical mindset

Engage in constructive discussion



Assessment

Assignments

Graded as P and F

Seminars

Complete or Incomplete

Attendance

75%



Assignments

- **Two assignments with distinct content and grading rubric**
- **Word limit: 1000 excluding references**
- **Pay attention to what should be in the assignment**
- **Try to be specific**
- **Think about the grading rubric**



Seminars

- Includes presentation and discussion
- Pick topic for peer teaching seminar by end of 1st week
- Schedule will be published ahead of time



To Pass the course

To earn the credit:

1. pass the **2 hand-in assignments individually**
2. actively participate in all the **3 seminars**
3. attend all the mandatory lectures



Literature

- Relevant articles and reports are provided in the canvas page



Communication

Canvas is the primary mode of communication

All lecture slides, literature and schedules will be uploaded here



If you miss a mandatory lecture

- **Extra assignment**
- **Case by case basis**
- **Depends largely on which lecture you missed**