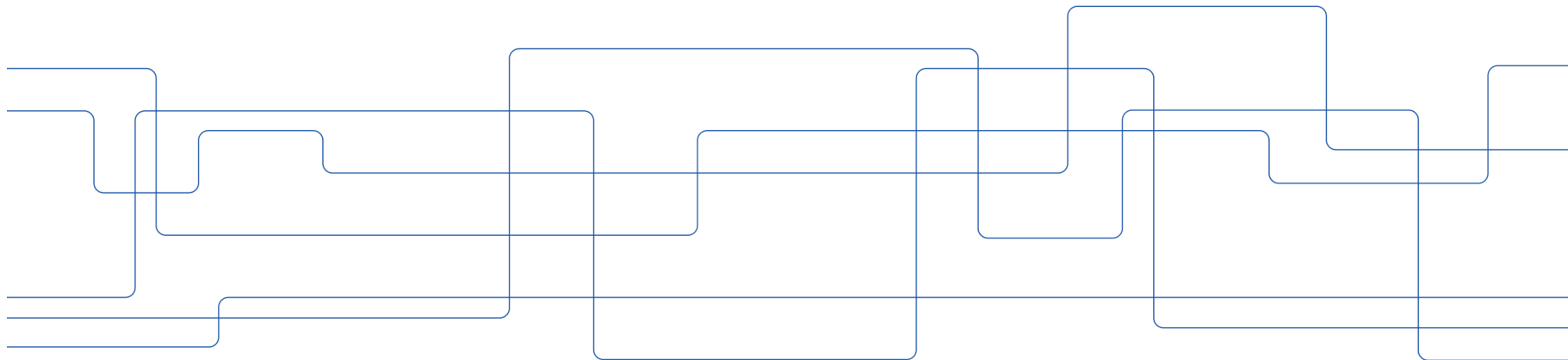




FAH3460 Topics in Transport Science Part 1

Introduction

Erik Jenelius, 19 November 2020





Course Objective

The course helps doctoral students to situate themselves in the broad field of transport science

The students obtain broad knowledge through overview lectures and interact on more detailed topics in seminars, taking various roles (presenter, opponent, listener)



Contents

- Overview lectures covering the broad field of transport science
- Participation in scientific seminars within transport science offered by KTH
- Participation in national and international conferences



Examination

- 1.0 ECTS through participation in eight overview lectures
- 2.5 ECTS through seminar participation
- Each of the following roles can be adopted:
 - Presenter (at least once)
 - Attendant (at least once)
 - Opponent (desirable)



Lecture questions

- Each teacher will pose a question for you to analyze or reflect on based on the contents of the lecture
- Hand in short written text (< 1 page) on Canvas
- Required as proof of participation



Lectures 2020

Date	Time	Teacher	Title
19 November	10-11	Joel Franklin	Is it worthwhile exempting green vehicles from user fees?
	11-12	Oskar Fröidh	Rail: Applied science in a system perspective
25 November	10-11	Oded Cats	Ingredients in formulating problems and developing solutions for (passenger) transport systems
	11-12	Michele Simoni	The urban freight distribution challenge: Advanced modeling and optimization tools for efficient and sustainable solutions
3 December	10-11	Mike Ma	Data analytics and crowding management in metro systems
	11-12	Fariya Sharmeen	Smart sustainable mobility transitions
9 December	10-11	Xiaoliang Ma	Introduction to the research and emerging methods in ITS
	11-12	Erik Jenelius	Vulnerability and resilience of transport systems



Seminar Participation

- Division of Transport Planning seminars, Division of Systems Analysis and Economics seminars, approved external seminars
 - 0.75 ECTS as presenter
 - 0.75 ECTS as opponent
 - 0.35 ECTS as attendant
- National conferences
 - 1.00 ECTS as presenter
 - 0.35 ECTS as attendant (only if no presentation)
- International conferences
 - 1.25 ECTS as presenter
 - 0.75 ECTS as attendant (only if no presentation)



Bookkeeping

- You need written confirmation of seminar attendance
- At seminars: Copy of participation list or similar
- At (inter)national conferences, other proof is available
 - Conference program (if speaker)
 - Participation confirmation (at registration desk)
- Once you have fulfilled the course requirements
 1. Make a list indicating how you collected your results
 2. Add your attendance proofs to that list
 3. Send this to the course examiner (Erik)



Outlook: Part 2 (FAH3462)

- Is continuously offered (no fixed meeting times)
- Worth 4.0 ECTS
- Course responsible and examiner: Erik



Outlook: Course objective of Part 2

Doctoral students get exposed to, become visible in, and familiarize themselves with the international research landscape in transport science



Outlook: Course contents of Part 2

The student selects together with her/his supervisor activities leading to a fulfillment of the course objectives

Recommendations are:

- participation in international summer schools,
- visits to international research groups outside of KTH,
- refereeing activities for international journals and/or conferences,
- participation in the organization of international scientific events,
- international conference participation for which no credit is given in FAH3460 or any other course

Alternative activities are possible and should be agreed upon with the examiner



Outlook: Examination in Part 2

Participation in instances of the international activities indicated above

The student's supervisor judges when a participation level equivalent to 4 ECTS has been reached and submits a recommendation to the examiner, indicating at least the type and extent of each activity