



AH2301 Transportpolicy och utvärdering 7,5 hp

Transport Policy and Evaluation

Kursplan för AH2301 gäller från och med HT09

Betygsskala: A, B, C, D, E, FX, F

Utbildningsnivå: Avancerad nivå

Huvudområde: Samhällsbyggnad

Lärandemål

After the course you should be able to:

- identify relevant policy measures and strategies to address transport oriented problems and discuss their effectiveness in relation to societal objectives
- discuss the underlying principles for different appraisal frameworks
- apply multi-criteria analysis to transport projects
- explain and apply the principles of cost-benefit analysis to make economic appraisals of transport improvement projects
- account for advantages and limitations of cost-benefit analysis
- account for methods for non-market valuation, and discuss their strengths and limitations
- use travel cost and basic stated choice methods for non-market valuation
- apply relevant methods to account for uncertainties in project evaluation
- use relevant equity measures to account for distributional impacts of different transport policies, and discuss their strengths and limitations
- use and discuss equity measures applied in developing countries
- identify important barriers to implementation of transport policies in different contexts, and discuss means to address such barriers.

Kursens huvudsakliga innehåll

- 1) Policy identification and strategy formulation.
- 2) Frameworks for appraising transport policy impact – land use, accessibility, air pollution, noise, accidents, and sustainability.
- 3) Principles for evaluating benefits and costs.
- 4) Basic principles and methodology for market and non-market valuation, such as stated choice methods, hedonic price models, contingent valuation, and travel cost method.
- 5) Present value, interest rate and discount rates.
- 6) Taxes, charges and regulation.
- 7) Principles and methods to handle uncertainties in appraisal and evaluation.
- 8) Equity and distributional impacts.
- 9) Sustainability and intergenerational equity.

10) Implementation and barriers to implementation.

The content of the course is presented and exercised in tutorials. Further training is provided in laboratory exercises. In a project assignment, the student will assess different policies to address an urgent policy issue.

Undervisningspråk

Undervisningspråk anges i kurstillfällesinformationen i kurs- och programkatalogen.

Behörighet

Eligibility

For single course students, i e students not enrolled in a regular KTH programme, the following is required:

- a completed Bachelor's degree in Engineering, Science, Economics or Planning including at least 60 credits in Mathematics, Physics, Statistics and/or Computer Science, as defined in the admission requirements for the Master's programme in Transport Systems and
- documented proficiency in English B, or equivalent.

For students enrolled in the Master's programme in Transport Systems at KTH, the course in Transport and Society, AH2300, is recommended.

Litteratur

A Methodological Guidebook, Institute of Transport Economics, Oslo, Norway, ISBN 82-480-0313-2, 2003.

P. S. McCarthy, 2001, Transportation Economics: Theory and Practice: a Case Study Approach, ISBN 0631221808.

A selection of research articles.

Examination

- LAB1 - Laboration, 3,5 hp, betygsskala: A, B, C, D, E, FX, F
- TENA - Tentamen, 4,0 hp, betygsskala: A, B, C, D, E, FX, F

Krav för slutbetyg

A mandatory written examination equivalent to 4 credits with grading scale A-F and a mandatory project assignment equivalent to 3.5 credits with grading scale PF. The course will have grading scale A-F. Assignments must be turned in before deadlines. Credits from the project assignment will be valid on the written examination for one year.