AM206U Research Methodology in Urban Development and Design 7.5 credits

Forskningsmetodik inom design och byggande i staden

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for AM206U valid from Spring 2016

Grading scale

P, F

Education cycle

Second cycle

Main field of study

The Built Environment

Specific prerequisites

Housing from A to Z (AM201U), Construction economy, calculations and financing (AM202U), Sustainable resource management in the construction sector (AM203U), Complexity and conflicts in urban development (AM204U) and Design and construction in the city (AM205U) must have been successfully completed.

An additional requirement of the study programme (the course is part of the Master's programme 'Design and construction in the city') an undergraduate degree of a minimum

of 180 credits in architecture, urban planning, civil engineering, surveying or other related area, and at least 2 year's work experience within corresponding area.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

Upon successful completion of the course the student will be able to:

Formulate a relevant research question based on the programme's overall goal and their own work experience, as well as discuss the consequences of alternative formulations and their associated research strategy options.

Identify alternatives and discuss the options in the structuring and planning of a smaller scale research project, in addition to analysing the consequences of the selected path in relation to other alternatives that have been identified.

Choose relevant methods to provide answers to research questions and argue the case for them according to the opportunities and limitations that they involve.

Working independently, identify and perform a review of a body of research in relation to a specific research question.

Describe generally accepted models of the research process and widespread critiques of these models.

Critically analyse and perform a quality assessment of the basis of the scientific standpoint for the body of knowledge of various types of scientific publications and practice-oriented knowledge base.

Course contents

The course aims to equip students with the necessary foundations in science theory, research and research design required to design and implement a Masters thesis in the interdisciplinary research field 'Design and construction in the city'; including aspects of engineering, architecture and economics in the context of a broad social science approach. The course will also provide students with the analytical tools to, in a reflexive and informed way to evaluate knowledge base on scientific grounds on the basis of its scientific validity and reliability.

Course literature

Course literature will be provided in the form of books and science articles. In addition, the student is expected to locate independent literature and review literature within the given subject area.

Examination

- SEM1 - Seminar, 3.0 credits, grading scale: P, F
- PRO1 - Project, 4.5 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Other requirements for final grade

Active participation at seminars, individual assignments for submission/project work and group work.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.