A21TEB Architectural Technology 2 9.0 credits

Arkitekturteknik 2

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

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

Establishment

Course syllabus for A21TEB valid from Autumn 2011

Grading scale

P, F

Education cycle

First cycle

Main field of study

Architecture,Technology

Specific prerequisites

The student must fulfill the curricular requirements for the second year.

Language of instruction

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

Intended learning outcomes

In the modules/course stages outlined below students will learn to:

PART 1: ENVIRONMENT, CONSTRUCTION AND ENERGY

- review an existing design project with regard to structural system, constructional system, environmental performance and energy

- describe the link between physiological experience and building physics

- hypothesize about the impact on building fabric of building physics

- explain the effects of qualitative structural analysis applied on own projects

PART 2: ARCHITECTURAL TECHNOLOGY AND DIGITAL MODELLING

- motivate design procedures and geometric approach in a digital design project

- motivate the use of digital design tools

- interpret and evaluate digital design outcomes and results

- communicate produced material and drawn conclusions through visual media and oral presentation to the year group

PART 3: DETAIL DESIGN 2

- Describe and critically review the relationships between different actors in the design process

- Analyse the relationship between architectural representation, project process and processes of fabrication.

- Hypothesise about the significance of roles and responsibilities of the different actors in this process

- use course literature, events and workshops from parts 1-3 to create synthesised archive of knowledge gained through years 1 and 2

Course contents

To apply principles in structures, environment and energy to the students own design work. To develop an understanding of digital analysis programmes in relation structures and geometry. To investigate processes of practice collaboration in building design.
Workshop based course with applied lectures and field trips.
The course is divided into part 1, part 2, part 3.

Course literature

Information will be given at the start of the course.

Examination

- MOM1 - Moment 1, 3.0 credits, grading scale: P, F
- MOM2 - Moment 2, 4.5 credits, grading scale: P, F
- MOM3 - Moment 3, 1.5 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.

Other requirements for final grade

The learning outcomes are examined through the records of the design process, and through the outcomes of the course specified assignments. To achieve the approved level (pass) students must have approved tasks, including 80% attendance at lectures, seminars, tutorials and reviews.

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.