



Course syllabus

Byggteknik med arkitektur Housing Design

ABVA05, 6 credits, G1 (First Cycle)

Valid for: 2023/24

Faculty: Faculty of Engineering, LTH

Decided by: PLED A

Date of Decision: 2023-03-28

General Information

Compulsory for: IBYA1

Language of instruction: The course will be given in Swedish

Aim

The course aims to give students a basic orientation about the teamwork in building and architecture where the work of the civil engineers is included. Different points of view on architecture and building technology are presented in a Swedish and international perspective. The course shall introduce the concepts of architecture, the interplay between human beings on the one hand and the environment and social and cultural values on the other. The workplace-studies aim to associate the course to the application of building-workers' skills on a building site.

Learning outcomes

Knowledge and understanding

For a passing grade the student must

- have a knowledge about architectural terms and concepts
- have an acceptable understanding of what technology signifies for architecture and the building industry
- have a perception of the influence on building technology of aesthetics and design
- be able to competently and to understand how the influence of civil engineers and architects on one another at the planning stage can affect the quality of the planning process and the completed building
- understand the different parts of the planning process, for example, planning and building

- know what the building industry demands in the way of energy and also on national considerations of resources

Competences and skills

For a passing grade the student must

- be able to design and submit a small building task

Judgement and approach

For a passing grade the student must

- be able to analyze the conditions for a small building task
- be able to present a small building task orally, in text and pictures

Contents

The course gives an orientation about what technology signifies for building and architecture, especially from an architectural point of view.

Lecturers from private and public sector in architecture describe the process of designing and building.

An exercise in drawing will give an insight in how to work with architecture.

Exemplified in Swedish and international contexts, the different parts of the planning process for building are considered in turn. How civil engineers and architects influence one another, as well as the qualitative results of the planning process, are studied particularly closely. Emphasis is given to how aesthetics and design influence building technology, and building industry energy demands. How human beings relate to the environment is studied in a long-term social perspective.

Any costs for excursions are to be paid by the student.

Examination details

Grading scale: UG - (U,G) - (Fail, Pass)

Assessment: Successfully to complete the course, a student must attend not less than eighty per cent of the lectures, tutorials and study visits. At the end of the course, the student must pass examination of a project work. The student also has to get smaller exercises approved. He or she must also carry out the Afu (workplace studies) successfully.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Parts

Code: 0117. **Name:** Housing Design.

Credits: 6. **Grading scale:** UG.

Code: 0217. **Name:** Work Related Training.

Credits: 0. **Grading scale:** UG.

Admission

The number of participants is limited to: No

Reading list

- Bodin, A., Hidemark, J., Stintzing, M., Nyström, S.: Arkitektens handbok. 2019, ISBN: 9789144112534.
- Boverket: Regelsamling för byggande, BBR 2008. 2008, ISBN: 9789186045036.
- Kurskompendium.
- Waern, R.: Guide till Sveriges arkitektur , Byggnadskonst under 1000 år. 2001, ISBN: 91-86-05055.
- Ahlstrand, J-T.: Arkitekturtermer, Andra uppl. Studentlitteratur , 1976, ISBN: 91-44-02852-0.

Contact and other information

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