



Course syllabus

Hållbar arkitektonisk gestaltning Sustainable Architectural Design

AAHF10, 9 credits, G2 (First Cycle)

Valid for: 2023/24

Faculty: Faculty of Engineering, LTH

Decided by: PLED A

Date of Decision: 2023-03-28

General Information

Main field: Architecture.

Compulsory for: A3

Language of instruction: The course will be given in Swedish

Aim

The aim of the course is to support the students' ability to architecturally design a building, existing or new, which from theoretical and practical point of view brings together aspects concerning form, technique and sustainability.

Learning outcomes

Knowledge and understanding

For a passing grade the student must

- demonstrate insight and ability to describe established and scientific knowledge within the field.
- demonstrate insight and ability to describe the relation between architectural form and aspects concerning technique and society.

Competences and skills

For a passing grade the student must

- demonstrate skill in complex architectural design.
- demonstrate ability in detailed scale (drawing) to represent the different parts of a building.
- demonstrate ability to include aspects concerning sustainability in a building.
- demonstrate ability to communicate the project in text, drawings and images.

Judgement and approach

For a passing grade the student must

- demonstrate ability to analyze and strategically elaborate adequate initial values.
- demonstrate ability to judge sustainability in terms of social, technical and economical aspects and how these interacts in the building design.
- demonstrate ability in critical evaluation of own work in the design process.

Contents

Main focus of the course is the forming of a building from artistic, technical and to society related aspects. Major attention is paid to the design of a small or medium sized building with an in advance established programme. Relations to townscape / landscape are focused as well as construction, energy efficiency and long range sustainable aspects on the building level. The teaching treats actual competence within the field, potential future developments and the role of architecture within this context. Instructions are given concerning the practical application of knowledge in the architectural design and the relation to the site. Teaching is based on exercises executed individually and in groups, through seminars, lectures, visits and tutorial reviews.

Examination details

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

Assessment: Approved assignment tasks, approved examination project and at least 80% attendance at seminars, lectures and group presentations. The qualities of the project assignment and presentation are evaluated and discussed by an examination team comprised of the course examiner, lecturers and external critics after which the examiner decides if the project is considered to fulfil the requirements for a pass. In the case of a non-pass the student has the right to a new examination opportunity after any necessary amendments or re-formulation of the project. The examiner informs the student as to what is required in order to achieve a pass.

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.

Admission

Admission requirements:

- AAHA01 Architecture, Basic Course A1 or AAHA20 Architecture, Basic Course C1
- AAHA10 Architecture, Basic Course B1 or AAHA30 Architecture, Basic Course D1
- AAHA05 Architecture, Basic Course A2 or AAHA25 Architecture, Basic Course C2
- AAHF05 Architecture, Basic Course D2 or AAHF15 Architecture, Basic Course B2
- VBMA10 Building Technology and Building Physics
- VBMA05 Building Materials
- AAHA60 The Architect's Tools
- AAHA55 Architectural Design Process and Prototypes
- ABKA01 Energy and Building Services
- VBKA05 Architectural Design

The number of participants is limited to: No

Reading list

- Course compendium and supplementary literature, the contents of which vary from year to year.

Contact and other information

Course coordinator: Maria Rasmussen, maria.rasmussen@hdm.lth.se