



Course syllabus

Arkitektur i material och detalj I Architecture in Material and Detail I

AAKN20, 7,5 credits, A (Second Cycle)

Valid for: 2023/24

Faculty: Faculty of Engineering, LTH

Decided by: PLED A

Date of Decision: 2023-03-28

General Information

Compulsory for: MARK1

Elective for: A4

Language of instruction: The course will be given in English

Aim

The aim of the course is to provide in depth knowledge about architecture as a dialogue between building design, materials and construction. The students will study tectonic meanings in architecture through looking at a construction as a whole including symbolic, representative and other values. They will train the process of shaping architecture through aesthetic processing of material and construction. The aim is also to provide deep knowledge and understanding about materials and technologies from different periods of architecture to be able to interpret and apply in modern work.

Learning outcomes

Knowledge and understanding

For a passing grade the student must

- be able to explain the correlation between architecture, materials and construction in buildings from different periods and apply this knowledge in a modern building context
- show good knowledge in the artistic design process in architecture as detail and as a whole
- understand advanced construction from an architect's perspective

- have a good knowledge about materials and constructions from different periods

Competences and skills

For a passing grade the student must

- be able to analyze existing buildings from a tectonic point of view
- be able to collect knowledge to design and outline a building with focus on materials and details
- be able to design a building from a tectonic and spatial point of view and present this in model and text
- be able to present his/her workprocess and results orally, in writing and visually

Judgement and approach

For a passing grade the student must

- present a critical, independent and creative approach in the work process where artistic, materials and details are included
- be able to assess architecture from a holistic perspective

Contents

The course is directed to the modern building tectonics. The work includes both analysis and development of the built environment. The course is based on earlier basic knowledge and provides more complex, broader and deeper studies in materials, details and advanced structures of architecture.

Examination details

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

Assessment: To obtain a passing mark each student must have approved submissions and at least 80% active attendance at seminars, lectures and examinations. Attendance at the final review.

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:

- ATHA10 The Theory and History of Architecture II (Year 2) or ATHA25 The Theory and History of Architecture IV (Year 2)
- ATHF01 The Theory and History of Architecture V
- AADA20 Digital Tools 5
- ASBF05 The Fundamentals of Urban Design
- AAHF01 Sustainable Technology in the Built Environment
- AAHF10 Sustainable Architectural Design
- ATHF01 The Theory and History of Architecture V
- ATHF05 The Theory and History of Architecture VI
- VBEA05 The Construction Process, Basic Course
- AADA25 Digital Tools 6
- AAHF35 Documentation and Communication
- AAHF20 Architecture - In Time and Space or AAHF26 Architecture - In Urban Contexts or AAHF30 Architecture - In the Contemporary

The number of participants is limited to: 36

Selection: Completed university credits within the program. Within programmes where the course is given as a mandatory or elective mandatory course students are guaranteed admission. There after priority is given to students enrolled in programmes that include the course in the curriculum.

Reading list

- A course compendium which can change between years.

Contact and other information

Course coordinator: Jesper Magnusson, jesper.magnusson@arkitektur.lth.se

Further information: The course “Architecture in Material and Detail I” differs from “Architecture in Material and Detail II” through different focus. Reference literature as optional resources for learning and inspiration is available on a course shelf in the Library for Architecture and Design.