



LUND
UNIVERSITY

LTH

FACULTY OF
ENGINEERING

Course syllabus

Kulturhistoriska byggnader Cultural Heritage Buildings

ABVN16, 15 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

Elective Compulsory for: MARK2

Elective for: A4

Language of instruction: The course will be given in English on demand

Aim

The aim of the course is that each student shall acquire competence in rebuilding and/or adding to buildings, or in building new ones, in an already existing, sensitive built-up area. He or she shall also be able to discuss and analyze qualities in renewal; to become competent in preserving and renewing a culture-historical built-up area; and in planning.

Learning outcomes

Knowledge and understanding

For a passing grade the student must

- understand and apply central concepts in communicating and discussing developmental and design ideas in the restoration and renewal of culture-historical buildings
- understand and analyze functional and technical conditions, and the culture-historical values, of such buildings as a basis for planning their renewal
- develop a project for the restoration and/or renewal of sensitive architecture
- applying in his or her project knowledge of traditional building materials and the skills of artisans

Competences and skills

For a passing grade the student must

- be able to make impact studies of proposals for change that take account of culture-historical, technical and functional values
- develop his or her projects that take account of technical, aesthetical and functional values
- use modern techniques of presentation
- present proposals for change and renewal
- ought to be skilled in thinking critically; in independently resolving problems; in arguing convincingly; and working alone and in groups
- be able to investigate and understand the functional, technical and aesthetical qualities of culture-historical buildings or built-up areas
- be creative, for example in thinking in an innovative way

Judgement and approach

For a passing grade the student must

- be able to apply the Swedish authorities demands for care when altering and/or renewing a building or an entire built-up environment
- in taking a holistic view of a building and the process of changing it, take into account health, environmental, climatic, safety and access considerations

An architect's restoration work requires careful preliminary study and great detail in planning, and in its designs it should avoid superficial trends and tendencies.

Contents

The course addresses buildings of culture-historic value. The course gives knowledge and understanding of, and training in, design having to do with encounters between new and old architecture. The course also focuses on the function, design, material, administration and renewal of buildings. It gives training in how to adapt buildings to contemporary requirements for functions, technical equipment, design and access by physically-handicapped persons. It also examines relevant Swedish legislation, and Swedish demands for care in rebuilding, as well as rebuilding processes.

The course includes: preliminary investigations; modern methods of surveying and estimating damage; capacity analysis and culture-historical evaluation; sketches and reference studies; impact analyses and proposals for remedies; descriptions of buildings, detailed drawings; sample of colours and materials; presentations using modern methods of projection; current Swedish legislation on changes to existing buildings; and international codes and organization.

Examination details

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

Assessment: During the course, constant reference is made to individuals' levels of knowledge: each gives a preliminary account of his or her work-in-process on a project that is assessed. At the end of the course, each gives in words, drawings and images a final account of this project that the other students assess critically.

Successfully to complete the course, a student must attend not less than eighty per cent of the lectures and study visits; actively take part in drawing-office instruction, and preliminary and final assessments; and gain approval for his or her project.

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: 30

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.

The course overlaps following course/s: ABVN15

Reading list

- Björk, Reppen , Kallstenius: Så byggdes husen 1880-2000, arkitektur, konstruktion och material i våra flerbostadshus under 120 år. Svensk Byggtjänst, 2013, ISBN: 9789173336185.
- Douglas, J: Building Adaptation. Butterworth- Heinemann, 2002.
- FEILDEN, Bernard, M: Conservation of Historic Buildings. Architectural Press, Elsevier, 2003, ISBN: 0-7506-5863-0.
- Keohane, F: Period houses, A Conservation Guidance Manual. The Dublin Civic Trust, 2005.
- Millhagen, R. (red): Hantverket i gamla hus. Byggförlaget, 1999, ISBN: 91-7988-176-9.
- Neufert, E, Neufert, P, Baiche, B, Walliman, N: Architects' data. Wiley- Blackwell, 2012, ISBN: 9781405192538.
- Björk, C.: Sekelskiftets byggtéknik, om arkitekten Valfrid Karlsson - byggnadsverk och läroböcker. Svensk byggtjänst , 1988, ISBN: 91-7332-458-2.
- Bodin, A, Hidemark, J, Stintzing, M, Nyström, S: Arkitektens handbok. Studentlitteratur, 2016, ISBN: 9789144112534.
- Millhagen, R. (red): Hantverket i gamla hus. Byggförlaget, 1999, ISBN: 91-7988-176-9.
- Neufert, E, Neufert, P, Baiche, B, Walliman, N: Architects' data. Wiley- Blackwell, 2012, ISBN: 9781405192538.

Contact and other information

Course coordinator: Erik Tonning Jensen, erik_tonning.jensen@abm.lth.se

Further information: To this course is associated the deepening and compulsory course "Cultural Heritage Buildings, -theory" 6hp.