



ABVN20 Architecture in Material & Detail II

This is a practice oriented course presenting the use of good materials and details in architecture, learning from leading Scandinavian architects' talk about choices and investigations of materials in creating new architecture and restoring heritage architecture through their building design. Laboratories are made together with skilled craftsmen and workshops are visited. The course shows how the theory of climate control and energy efficiency research etc. are turned into practice, using creative and aesthetic solutions.

Course focus are;

- *development in smart materials, modern materials and new production technology*
- *reuse of traditional material know-how,*
- *details and solutions adopting to modern demands.*

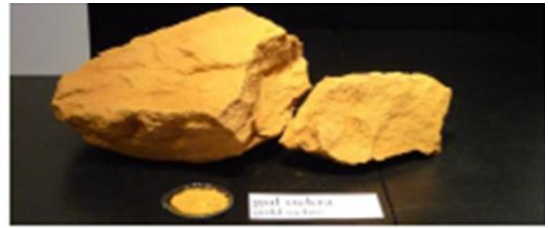
Objectives:

The course provides

- advanced knowledge of architecture as a dialogue between design, materials and technology,
- training in architecture through the artistic treatment of materials and technology
- awareness of materials and technology from different times and application in modern architecture.

Contents:

Theory of materials and how their qualities and characteristics can be used in architectural technical and artistic expression. Study visits and training architectural application of materials are implemented.



Transparency, color and texture are included in the architectural character and quality. Wood, stone, brick, tiles, plaster, lime, gypsum, iron and paint are studied.

The fast development of new materials and details in building-technology adds dimensions of choice. New smart materials give possibilities for material values and production efficiency but some will prove to be short-lived. Long-term sustainability and adoptive reuse are important parts of future architecture as well as cheap, temporary buildings and building-materials. This course discuss values of architectural choices, the use of creative solutions that address the future challenges in demands without disregarding functional and aesthetical values.

Know-how in traditional materials and technology is fundamental for conservation and reuse of historic buildings. New smart materials add possibilities for careful repair and adoptive reuse of old buildings. The use of historic and smart materials also gives options for sustainability and perfection over time. This course presents materials and details as an integrated, holistic part of architectural concepts.

Operation

The course consists of lectures, seminars, demonstrations, labs, study-visits at manufacturers and training exercises. Lectures will give inspiration and show the methodology of projecting materials and details. Lab will demonstrate the use of both the hands and the brains and are documented and collected in a toolbook/grammarbook. This book includes the exercise presented in the final reviews.

You will meet some of the most distinguished, young and experienced architects, craftsmen and experts in materials and detailing.

Kerstin Barup, prof dr /examiner
Division of Architectural Conservation and Restoration
Department of Architecture & the Built Environment
Lund University



ABVN20 Architecture in Material & Detail II

ABVN20, credits: 7,5 examiner prof Kerstin Barup, Spring 2015

Date	Time	Classroom	Lecture
v. 4			
23 Jan	10-11 11-12 13-15	A:B A:B A:B	Introduction, course program and exercise prof Mats Edström (ME) Modern and historical Scandinavian Wooden Towns & Buildings, materials/details, ME The Scandinavian Architecture tradition, ME
v. 5			
30 Jan	08-10 10-12 13-17	A:B A:B Lund excursion	Exercise supervision, ME Scandinavian Modernism 1945-2010, -architecture and smart materials, ME Excursion Eslöv Civic Hall, train Lund C till Eslöv C Train to Eslöv, Meetingpoint 13.30 at Eslöv Civic Hall
v. 6			
6 Feb	08-10 10-12 13-17	A:B A:B A:3015	Exercise supervision, KB Crafts, materials and details in historic architecture, prof Kerstin Barup (KB) Exercise, the tool- and grammar book KB
v. 7			
13 Feb	08-10 10-12 13-17	A:B A:B A:B	Exercise supervision, ME, KB Plaster limemortar & limewash in architecture KB Workshop laboratory with stuccomaster Hans Räthel, KB Meeting point 13.30 Höstbruksvägen, 13 Lund
v. 8			
20 Feb	08-10 10-12 13-17	A:C A:C A:3011 Bed R	Exercise, supervision, KB Traditional pigments and binder, oil, glue and lime, KB Color laboratory workshop and lecture, KB
v. 11			
12 Mars	08-10 10-12 13-17	A:B A:B A:B	Exercise, supervision, ME Elding Oscarsson projects, Jonas Elding, www.eldingoscarsson.com Exkursion The Museum of Sketches, the new additions JE
v. 12			
20 Mars	08-12 13-15	A:B A:B	Målarkalk, Hyllinge, Daniel Nymberg in the factory, KB Tham & Videgård architecture, architect Bolle Tham & Martin Videgård
v. 13			
26 Mars	08-17		Stone & craftsmanship, prof Kurt Johansson, FD Gunnar Almevik, ME St Hammar kyrka, stone conservation Contractor Bengt Hössung, Kai Marklin
27 Mars	08-12 13-17		Workshop laboratory on stone and the new CNC-machine, Bengt Hössung and KB Dep from Lund C 08.41 arrival 09.32 + walk to Marmor & Granit AB, Industrigatan 6, Kristianstad Meeting Point kl 10.15, 13.30 Visit to Trefaldighetskyrkan Danish renaissance, KB
v.15			
10 April	08--17		Studiovisit to Gärsnäs möbler furniture factory, KB Dep from Lund C at 08.05
v. 16			
17 April	08-12 13-17	A:1009 A:1009	Review examination group 1 ME Evaluation, follow up ME
v.17			
24 April	08-12 13-17	A:3011 Bed R A:3011 Bed R	Review examination, group 2 KB Evaluation, follow up KB

