

COURSE INFORMATION

The format of this course includes sessions, where the method and tools are introduced by experienced researchers, and sessions, where theory is applied through practical exercises and software workshops. The course will be held at an advanced level thus the participants are expected to possess knowledge on building physics and energy, indoor environment and building design.

All lectures will be given in English. Lecture notes will be provided on the course website:

www.byg.dtu.dk/sektioner/bfi

Practical instructions on the course will be sent to participants.

LECTURERS

Professor Thomas Herzog, TUM
Professor Anne Grete Hestnes, NTNU
Professor Jan Søndergaard, KARCH
Professor Maria Wall, LU
Professor Svend Svendsen, DTU
PhD. Lars D. Christoffersen, Birch & Krogboe
PhD. Mikkel Kragh, Arup
PhD. candidate Christian Hviid, DTU
PhD. candidate Steffen Petersen, DTU

REGISTRATION AND ACCOMODATION

Please register before Oct. 15th to Prof. Svend Svendsen (ss@byg.dtu.dk). The registration fee for participants from the industry is DKK 1,500.00.

For accommodation a list of hotels can be seen on www.visitcopenhagen.com

CONTACT

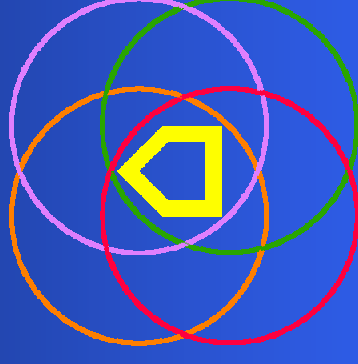
For further information please contact Professor Svend Svendsen

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INTEGRATED DESIGN of LOW-ENERGY BUILDINGS

Copenhagen, October 24-30, 2007



Technical University of Denmark
DTU
Dept. of Civil Engineering
Building Physics and Services
Brovej, building 118
DK-2800 Kgs. Lyngby
Denmark

COURSE DESCRIPTION

The course is a 3 day masterclass with the participation of master students, PhD-candidates and practitioners from the building industry. The course is relevant for anyone within the field of building energy, indoor environment and architecture.

The objective of the course is to introduce a state-of-the-art methodology for designing energy efficient buildings while maintaining a good indoor climate. All within the framework of the EU Energy Performance Building Directive (EPBD). The method is starting at the very first stage of the building design process. The rough procedure of the method is: analysis regarding the functional requirements of the building, generating the space of solutions, creating possible design suggestions, selecting and optimizing a design.

During the course the participants will become familiar with the suggested design method and the supporting tools and user-friendly software. All teaching material, incl. software, is handed out for keeping. Furthermore, the course participants have the exclusive chance of gaining first-hand experience from a number of leading practitioners within the field of sustainable building design.

Preliminary course plan	Wednesday Oct. 24	Thursday Oct. 25	Friday Oct. 26
Morning 9-12	Lecture: Introduction and motivation for integrated design (Svend Svendsen) Lecture: Integrated design of buildings -I Requirements -II Space of solutions (Steffen Petersen)	Lecture: Integrated design of buildings -III Generation of possible solutions (Steffen Petersen) Group exercise: generation of possible solutions Low-energy buildings seminar Anne Grete Hestnes Maria Wall Jan Søndergaard Thomas Herzog Lars D. Christoffersen Mikkel Kragh Panel discussion	Lecture: Integrated design of buildings -IV Selecting and optimising solution (Svend Svendsen, Steffen Petersen) Exercise: Selecting and optimising solution Preparation of presentation of group work Presentation of group work Discussion and evaluation of method
Afternoon 13-17	Lecture: Tools for integrated design (Christian Hviid) Exercise presentation (Svend Svendsen, Steffen Petersen) Group exercise: generation of space of solutions		
Evening 17-		Social event: Dinner in town (optional)	