

## Continuous education course

# 3D MODELING AND VISUALIZATION FOR LANDSCAPE ARCHITECTURE AND PLANNING

16 - 18 OCTOBER 2013, ÅS

## BACKGROUND

3D visualizations are playing an important role in the formulation and communication of design concepts. 3D visualizations are found to be more powerful to convey experiential qualities than two-dimensional methods for presentations and exchanges of conceptions. The design community start extensively to incorporate 3D modelling and visualizations tools into the design process and use it in order to enhance the communication with various players including: planners, engineers and design experts, clients, decision makers and community groups.

Recently, the field of 3D visualization has achieved significant advances to the point where it is now possible to present alternative planning and design scenarios with a high degree of realism and interactivity. These types of 3D visualizations provide the possibility to explore many aspects of the design in real-time, which would enhance the level of communication in the design and planning process.

## OBJECTIVES

The objective for the course is to explore the potentials and complications associated with 3D modeling and visualizations in interaction with landscape, urban systems and dynamics, architecture and construction. The emphasis is put on learning best practices using 3D in design for creating design concepts and presentations by making use of latest developments in 3D technology for collaboration and communication.

Participants will be exposed to a design methodology which encourages them to think in 3D from early stage of a design process. By completing the course, participants will have overview over the latest developments of 3D digital tools for modeling and visualization for landscape design and planning. They will be also equipped with new skills and understanding about how to use it for their future projects. Participants will also notice that the learning process using new tools is relatively short and straightforward. A designer or planner can now work with 3D while developing the design concept. Consequently, a designer can concentrate on the design instead of struggling with creating 3D visualizations.

## TARGET GROUP

The course is ideal for landscape architects and planners with intermediate 3D modeling knowledge with CAD.

## STRUCTURE OF THE COURSE

The course will function as an arena to work with various topics, tools and techniques connected to the use of 3D modeling and visualizations in landscape design and planning. The course is based on a combination of lectures and exercises at computer lab. After introducing the main topic through a lecture, participants will work individually or in group with supervision on a selected case.

The course is planned for three days and structured around three main topics: 1- 3D modeling and visualization with SketchUp. 2- 3D visualizations with Lumion3D. 3- 3D planning with Autodesk InfraWorks (previously: Autodesk Infrastructure Modeller). In addition, guest lecturers will join in the course in order to show projects examples on how they are practicing 3D digital tools and techniques for modeling and visualizations. Language for the course: English and parts in Norwegian.

**COURSE FEE:** kr 11 500

## ABOUT RAMZI HASSAN

Ramzi Hassan is the responsible and main teacher for the course. Ramzi Hassan is architect Dr.Scient og Associate Professor in computer visualizations for design and planning at Institutt for landskapsplanlegging at UMB in Ås.

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