

## AAR 4565 / 4885 TIMBER STRUCTURES

Teachers: Prof. Jan Siem course manager  
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### INSTALLATION IN ORKDAL 2017

This is a fifteen weeks design course within the topic structure and architecture including two weeks full-scale building.

Orkdal is a municipality close to Trondheim. As a part of a new collaboration between Orkdal Municipality and our faculty, an installation is going to be built along the river in the Orkla Park. A discussion on what the installation is going to be, is going on with the future users. The same course organization has been carried out for a client in Rindal where a birdwatching tower and a Star Cube have been designed and built.

The course will give you specific training and knowledge in:

**Architectural design I:** 6 weeks with individual project work, starting with developing an intention program and ending with an exhibition and response from our sensor. Already from the beginning of the process a choice of structural elements will be made.

**Architectural design II:** 2+4 weeks with group work designing details and providing process information.

**Knowledge of wood as structural building material.** Excursion, lectures and seminars will focus on the different aspects of the use of wood. Six lectures and seminars will provide basic information on trusses, frames and solid wood, bracing, properties of wood, construction products, connections and protection. In seminars you will present your own perspective on these issues, through pictures and in depth studies.

**The building process.** The process of production and building is complex and intense. Competence in team-work will be tested and developed. It is both a frustrating and satisfying process at the same time. There has to be quality solutions for everything, even the smallest detail. The construction work will be executed in week 19 (in Trondheim) and week 20 (in Orkdal).

**Relational competence.** Meetings and discussions, both within the group and with principals, may be challenging and requires an ability to see the whole picture and to be able to integrate different perspectives. A way of handling complex matters called "The Integral Approach" will be presented for you, and there will be a focus on the ethics of collaboration, group-creativity and communication.

AAR 4565 and AAR 4885 will be given as two courses with separate evaluations, The courses are strongly connected to each other. All project-work will be done in the studio. This is crucial to build a good working atmosphere and learning environment. The quality of the designed and built structure is proportional with the quality of the contextual relations.

Excursion/Accommodation in the building period/

Course cost: kr. 3000.

Start: Monday February 6<sup>th</sup>

Language: English

Collaborators: Orkdal Municipality

End: Wednesday June 7<sup>th</sup>

Group size: 18 students

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