

# COURSE DETAIL

## DESIGN OF TIMBER STRUCTURES

**Country**

Sweden

**Host Institution**

Lund University

**Program(s)**

Lund University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Engineering Civil Engineering

**UCEAP Course Number**

136

**UCEAP Course Suffix****UCEAP Official Title**

DESIGN OF TIMBER STRUCTURES

**UCEAP Transcript Title**

TIMBER STRUCTURES

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

The course provides understanding and knowledge about the behavior of advanced timber structures, tools for modeling and design, and the ability to weigh the pros and cons of different structural systems. The course includes the following parts: timber structures multi-story buildings and structures with a long span; instability of members (lateral torsional buckling of beams); straight and curved members; holes and notches in beams; cross-laminated timber; bracing of structures; design of details; connections for timber structures including dowel-type joints and glued joints; learning from failures; frames, arches, and cable structures; and the ability to independently approach, solve, and present one's work.

### Language(s) of Instruction

English

### Host Institution Course Number

VBKN30

### Host Institution Course Title

DESIGN OF TIMBER STRUCTURES

### Host Institution Campus

### Host Institution Faculty

Engineering

### Host Institution Degree

### Host Institution Department

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