

BYG3071 Structural Steel and Timber Design - 2010-2011

Course code:

BYG3071

Course name:

Structural Steel and Timber Design

Course level:

Bachelor (syklus 1)

ECTS Credits:

5

Duration:

Vår

Language of instruction:

Norwegian

On the basis of:

BYG2052 Konstruksjonslære I

Expected learning outcomes:

To give further knowledge in the design of steel and timber structures.

To enable the students to utilize the structural building codes in the design of structures.

Topic(s):

Part 1: STEEL DESIGN according to NS-EN 1993-1-1, NS 1993-1-2, NS1992-1-5, NS 1992-1-8

- Joints and connections - bolted and welded.
- Bracing - design. Torsional buckling.
- Fire design. Class 4 cross sections.

Part 2: TIMBER DESIGN according to NS-EN 1995-1-1, NS-EN 1995-1-2

- Connections. Tapered, curved and pitched cambered beams.
- Bracing design. Holes in glue-laminated members.
- Fire resistance of timber members.

Teaching Methods:

Other

Form(s) of Assessment:

Exercises

Written exam, 3 hours

Form(s) of Assessment (additional text):

Exercises counts approx. 40%

Exercises amounts to solving 10 problems of which 7 must be done to pass the course.

Written Exam, 3 hours counts approx.60%.

Grading Scale:

Alphabetical Scale, A(best) – F (fail)

Re-sit examination:

Done about 1/2 year later.

Tillatte hjelpemidler:**Examination support:**

All printed and written material. Calculator

Coursework Requirements:

See "Forms of Assessment"

Academic responsibility:

Faculty of Technology, Economy and Management

Course responsibility:

Høgskolelektor Harald Fallsen

Publish:

Yes