Building Technology

Programme course

6 credits

Byggnadsteknik

TNBI59

Valid from: 2017 Spring semester

Determined by
Board of Studies for Mechanical Engineering and Design

Date determined
2017-01-25

Main field of study
Civil Engineering

Course level
First cycle

Advancement level
G1X

Course offered for
- Civil Engineering, B Sc in Engineering

Entry requirements
Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

Prerequisites
Construction Drawing and CAD

Intended learning outcomes
The course intends to give basic knowledge about building materials, physical science applied to building technology and structural engineering. After completing this course students should:

- Describe building materials and their structure, production and property.
- Calculate heat insulation.
- Describe conceptions within structural engineering, , structural elements and components.
- Design a detached house.

Course content
Building materials, heat transfer and thermal insulation, foundation, frame of building, joists, external wall and roofing.

Teaching and working methods
The teaching consists of lectures, prepared visits, seminars and project work.

Examination

PRA1	Project work	2 credits	U, G
TEN1	Written examination	4 credits	U, 3, 4, 5

Grades

Four-grade scale, LiU, U, 3, 4, 5

Other information

Supplementary courses: Building technology, Advanced course

Department

Institutionen för teknik och naturvetenskap

Director of Studies or equivalent

Dag Haugum

Examiner

Madjid Taghizadeh

Course website and other links

Education components

Preliminary scheduled hours: 48 h
Recommended self-study hours: 112 h

Course literature

Additional literature

Compendia

Andersson, R., Byggnadsmateriallära
KTH, Byggnadsteknikensgrunder
M. Taghizadeh, Kurspärm

Common rules

Regulations (apply to LiU in its entirety)

The university is a government agency whose operations are regulated by legislation and ordinances, which include the Higher Education Act and the Higher Education Ordinance. In addition to legislation and ordinances, operations are subject to several policy documents. The Linköping University rule book collects currently valid decisions of a regulatory nature taken by the university board, the vice-chancellor and faculty/department boards.

LiU's rule book for education at first-cycle and second-cycle levels is available at http://styrdokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.