



HÖGSKOLAN I GÄVLE

Building Technology for Real Estate Agents/Managers 7.5 cr

Byggnadsteknik för fastighetsmäklare/-ekonomer 7,5 hp

Set by Faculty of Engineering and Sustainable Development

Version

Set at

Valid from

2/25/21

HT2021

Level	G1N
Education level	First cycle
Course identifier	BYG004
Credits	7.5 cr
Main field of study	Building Engineering
Subject group	Building Technology
Disciplinary domain	Technology 100.0 %

Learning outcomes

After completion of the course the student shall be able to

1. explain the functional requirements on buildings
2. state the terminology of building components and systems, and describe their build-up and identify building materials
3. state the concept of doing changes to a building
4. state the building inspection techniques, causes of damage and faults, and risks from changes in buildings
5. state the fundamentals of drawing techniques, interpret drawings and perform area calculations for detached houses
6. interpret the housing and plan legislation
7. describe the processes of construction and planning permission, and the building completion insurance
8. describe environmental certifications processes of buildings
9. explain climate declaration and energy performance certificate
10. state the importance of ethics and responsibilities related to building inspections.

Course content

Functional requirements on buildings
Building parts and building techniques
Installations and indoor environment

Building physics: moisture, heat and energy balance
 Building materials, durability and life cycles
 Housing and plan legislation, process of construction and building permits, and building completion insurance
 Changes of buildings (renovation, rebuilding and extension of buildings)
 Area calculations based on Swedish Standard, fundamental drawing techniques and analyse of drawings
 Energy performance certificate and climate declaration. Environmental certification
 Structural damage, transfer inspection
 Ethics and responsibilities related to building inspections

Teaching Lectures and study assignments

Prerequisites General entry requirements

Examination Written examinations

0010 Written online examination 1 4 cr, examines learning outcomes 1-4, grades A-F
 0020 Written online examination 2 3,5 cr, examines learning outcomes 5-10, grades A-F

Grade A, B, C, D, E, Fx, F

Other regulations Degree criteria for final grade will be given by course responsible or examiner latest at the beginning of the course.

Sustainable environment A minor part of the course content deals with sustainable development.

Module	0010	Written online examination 1	4 cr	Grade: AF
	0020	Written online examination 2	3.5 cr	Grade: AF