



AI2805 Building Informatics and Logistics 7.5 credits

Byggandets information och logistik

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for AI2805 valid from Spring 2019

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Built Environment

Specific prerequisites

Eligibility to the master programme in Real Estate and Construction Management.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

The aim of the course is to extend the students knowledge about IT from a organizational and strategic business perspective.

After the course the students should

1. Be able to describe and analyse the information handling in the design and construction process.
2. Be oriented in the field of classification, information systematics and information standards in design and construction.
3. Be familiar with common industrial IT-platforms for information sharing and delivery.
4. Be able to prepare an IT-strategy for a company and a project.
5. Be aware of different principles to organize and manage the information exchange in the design and construction process.
6. Be famliar with IT-based project management.
7. Be conscious about the relation between the implementation of information technology and the changeover of working methods, roles of different actors and the built results.

Course contents

IT-strategies, organization and management in companies and projects. Information systems in the real estate and construction sector. Conceptual modeling and classification. Process and product modeling, building information modeling, simulation and visualization. Information standards. IT-integrated architecture, construction and facility management. Common industrial IT-platform. Computer supported cooperative work. Project communication, project networks, document management. Mobility.

Course literature

Information about course literature will be announced at the beginning of the course.

Examination

- SEM1 - Seminars, 2.5 credits, grading scale: P, F
- TEN1 - Examination, 5.0 credits, grading scale: A, B, C, D, E, FX, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.