

Course syllabus

Kommunikation och datorverktyg Communication and Computer Tools

VBEA30, 8 credits, G1 (First Cycle)

Valid for: 2023/24

Faculty: Faculty of Engineering, LTH

Decided by: PLED V

Date of Decision: 2023-03-21

General Information

Compulsory for: IBYA1, IBYI1, IBYV1

Language of instruction: The course will be given in Swedish

Aim

The course aims to provide students basic tools for solving engineering problems by using computer tools. The student should also be familiar with the basics of oral and written communication. The course skills are expanded to include educational and career planning.

Learning outcomes

Knowledge and understanding

For a passing grade the student must

be familiar with:

- the different requirements for oral and written communication.
- rhetoric and presentation technology bases.
- computer-aided modelling and calculation and how different results can be illustrated.
- the basics of drawing techniques and the building information model
- different study strategies.

Competences and skills

For a passing grade the student must

be able to:

- communicate orally and in writing in such aspects as related to the student and as an engineer.
- perform an information and literature search.
- use the basic features of the building information model
- solve basic engineering problems.

Judgement and approach

For a passing grade the student must

be able to:

- understand and evaluate sources in both oral and written expression.
- read and interpret drawings and processing a project.
- decide which engineering tools needed in different situations.

Contents

The course deals with fundamental communication (both oral and written) on an engineering basis. The student is also trained practically in public performance, rhetoric, going into opposition and the methodology of writing reports.

With an engineering perspective, the course covers basic communication. The student will be trained in practical presentation skills, rhetoric and opposition to the oral presentation and methods for writing reports(outline, source criticism, methodology, literature search). To specifically support the skills in written presentations the course includes training in ability to handle basic computer programs for these purposes.

Even workshops in study and career planning are included as part of the course.

Examination details

Grading scale: UG - (U,G) - (Fail, Pass)

Assessment: All compulsory parts must be approved in order to obtain a final grade.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Parts

Code: 0118. **Name:** Communication and Computer Tools Part 1.

Credits: 3. **Grading scale:** UG. **Assessment:** Approved assignments and attendance requirements.

Contents: Communication and Computer Tools.

Code: 0218. **Name:** Communication and Computer Tools Part 2.

Credits: 5. **Grading scale:** UG. **Assessment:** Approved assignments and attendance requirements.

Contents: Written communication and Computer Tools.

Admission

The number of participants is limited to: No

The course overlaps following course/s: EDAA15

Reading list

- Hamrin G.: Byggnadsritning. Ritsätt och ritregler. AMG Hamrin, 1996, ISBN: 9186852159. REFERENCE LITERATURE.
- Teaching material via course website.
- I. Lindstedt: Talarens hantverk; Att göra framgångsrika presentationer. Studentlitteratur, 2015, ISBN: 9789144096667. Mandatory.
- As the development progresses rapidly the course literature can be changed. Some literature is available online.

Contact and other information

Course administrator: Kolbrun Arnadottir, kolbrun.arnadottir@construction.lth.se

Course coordinator: Carlos Martinez, carlos.martinez@construction.lth.se

Course homepage: <http://www.bekon.lth.se/utbildning/grundutbildning/>