Course syllabus

Technology Supported Communication
Teknikstödd kommunikation

EXTG45, 7.5 credits, G2 (First Cycle)

Valid for: 2026/27
Faculty: Faculty of Engineering LTH
Decided by: PLED C/D
Date of Decision: 2026-04-16
Effective: 2026-05-18

General Information

Depth of study relative to the degree requirements: First cycle, in-depth level of the course cannot be classified
Elective for: BME4, C4, D4
Language of instruction: The course will be given in Swedish

Aim

The course aims to give understanding for possibilities and limitations that arise where a new technology is used.

Learning outcomes

Knowledge and understanding
For a passing grade the student must

- be able to explain which possibilities and limitations that arise in communication where a new technology is used
- be able to specify how perceptual, cognitive and communicative aspects affect technology supported communication.

Competences and skills
For a passing grade the student must

- independently be able to analyse authentic situations in technology supported communication and with adequate

methods reflect over possibilities and problems.

Judgement and approach
For a passing grade the student must

- show ability to evaluate how new technology is used and how it affects the communication between people.

Contents

The course starts by looking at how we communicate face-to-face; how we transmit our message, how we communicate multimodally (language, gesture and gaze direction), how we create understanding, how we deal with expectations, and how we prevent misunderstandings. The objective of this introduction is to raise the awareness about the richness of face-to-face communication that serves as a comparison basis when we look at technical systems. Form: Lectures, exercises, labs, self-study.

The course continues with a focus on specific types of technically supported communication. In this moment we explore the following questions: What are the particular possibilities and limitations of each technical communication system, when compared to face-to-face communication? How do we compensate for the social aspects of communication (politeness, humour, irony etc)? How do we compensate for the lack of visual communication (gaze direction, posture)? How do we compensate for the lack of voice information (intonation, laughter, undertones)? How do we compensate for the lack of gestural information?

Form: Lectures, exercises, hands-on, analyses, labs, group discussions, self-study.

Examination details

Grading scale: TH - (U, 3, 4, 5) - (Fail, Three, Four, Five)
Assessment: Oral presentation of teamwork and written individual examination.

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.

Modules
Code: 0117. **Name:** Technology Supported Communication.
Credits: 7.5. **Grading scale:** TH - (U, 3, 4, 5).

Admission

Assumed prior knowledge: EXTA65/TEK210 Cognition.
The number of participants is limited to: No
Kursen överlappar följande kurser: TEK280

Reading list

- A collection of conference articles, research articles and scientific reports. Texts are provided by the department.
- Myter och sanningar om läsning. Nordstedts, 2010.

Contact

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