DM2593 Display and Projection Technology 6.0 credits

Display och projektionsteknik

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

Establishment

Course syllabus for DM2593 valid from Autumn 2008

Grading scale

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

Education cycle

Second cycle

Main field of study

Computer Science and Engineering, Information Technology, Information and Communication Technology

Specific prerequisites

Equivalent to the first two years of the Media Technology Programme at KTH.

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 give you

- knowledge of the most frequent display and projector systems for replay of moving images,
- knowledge of technical functional principles of such systems,
- an awareness of older projector and display systems and older techniques,
- knowledge of sound reproduction systems for moving images,
- basic knowledge of cinema techniques.

to enable you to

- be able to define technical characteristics and formulate conditions for quality,
- be able to choose suitable technical solutions to various systems and purposes,
- be able to make knowledgeable comparisons and estimate characteristics detrimental to quality when choosing a technical solution.

Course contents

Personal displays. Displays for several persons.

Contact-creating displays. Projectors. Digital displays

Sound systems. E-cinema, quality specifications, distribution models

Cinema techniques. Projection as decoration and as an art 'installation'.

The course consists of lectures and field trips with lectures. Due to the course content and form, you are recommended to attend as many lectures as possible.

If you are reading other collision courses simultaneously, we suggest you have a contact person among your course colleagues to enable you to interview and write-up the notes taken during lectures and field trips.

Course literature

John Watkinson: Convergence in Broadcast and Communications Media, ISBN 0 240 51509 0.

The set books also partly consist of PDF files and printed matter not available in an alternative format.

Examination

- TEN1 - Examination, 4.5 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Laboratory Work, 1.5 credits, grading scale: P, 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.

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

Other requirements for final grade

Examination (TEN1; 3 cr).
Laboratory work (LAB1; 1 cr).

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.