EL1150 Introductory Matlab Course 1.5 credits

Introduktionskurs till Matlab

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

Establishment

Course syllabus for EL1150 valid from Spring 2012

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology, Electrical Engineering

Specific prerequisites

Basic eligibility

Language of instruction

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

Intended learning outcomes

The course will give the fundamental knowledge and practical abilities in MATLAB required to effectively utilize this tool in technical numerical computations and visualisation in other courses. After the course you will be

- Able to use Matlab for interactive computations.
- Familiar with memory and file management in Matlab.
- Able to generate plots and export this for use in reports and presentations.
- Able to program scripts and functions using the Matlab development environment.
- Able to use basic flow controls (if-else, for, while).
- Familiar with strings and matrices and their use.

Course contents

Syntax and ineractive computations, programming in Matlab using scripts and functions, rudimentary algebra and analysis. One- and two-dimensional graphical presentations. Examples on engineering applications.

Course literature

Bergman, N. and F. Gustafsson. Matlab for Engineers – Explained. Springer Verlag 2003.

Examination

- TEN1 - Examination, 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

Approved take-home exam

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.