# EN2200 Pattern Recognition 6.0 credits

## Mönsterigenkänning

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

## Establishment

Course syllabus for EN2200 valid from Autumn 2007

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

## Specific prerequisites

## Language of instruction

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

## Intended learning outcomes

The participants shall after the course

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* be able to design systems and algorithms for pattern recognition (signal classification), with focus on sequences of patterns that are analyzed using e.g. Hidden Markov Models (HMM),

* be able to analyse classification problems probabilistically and estimate classifier performance,

* understand and analyse methods for automatic training of classification systems-

# Course contents

The course is about the theoretical foundation of pattern recognition and gives an introduction to technical applications, especially in speech recognition and image or sound classification.

# Course literature

Arne Leijon (2007) Pattern Recognition. KTH.

# Examination

- INL1 - Individual Assignment, 1.5 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Examination, 4.5 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.

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

# 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.