# KE2090 Pharmaceutical Technology 7.5 credits

**Läkemedelsteknik**

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

## Establishment

Course syllabus for KE2090 valid from Autumn 2007

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

Chemistry and Chemical Engineering

## Specific prerequisites

## Language of instruction

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

## Intended learning outcomes

During the course the students will acquire basic knowledge of preformulation and formulation of drugs, pharmaceutical unit operations and manufacturing, packaging and quality control of pharmaceutical dosage forms.

## Course contents

The course includes:

- chemical properties of drugs of importance to drug formulation, and how these are characterized
- principles of drug formulation and the release of drugs from pharmaceutical dosage forms
- excipients and their properties
- important pharmaceutical unit operations
- manufacturing and packaging of pharmaceutical dosage forms
- quality assurance and quality evaluation

## Course literature

Aulton M.E., Pharmaceutics - The Science of Dosage Form Design, Churchill Livingstone, Edinburgh 2002.

Alderborn, G., Björk, E., Castensson, S., Johansson, M.E., och Waltersson, J.O., Utformning av läkemedel, Apoteket AB, Stockholm, 2000

Ek Ragnar, Fasta läkemedelsformer - formulering, tillverkning och karakterisering, Läkemedelsakademien

## Examination

- TEN1 - Examination, 4.5 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Laboratory Work, 3.0 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, 4,5 credits.
Laboratory work, 3 credits.

## 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.