



## Course syllabus

Faculty of Technology

Department of Computer Science and Media Technology

1DV005 Problemlösning och modellering, 7,5 högskolepoäng

Problem Solving and Modelling, 7.5 credits

### Main field of study

Computer Science

### Subject Group

Informatics/Computer and Systems Sciences

### Level of classification

First Level

### Progression

G1N

### Date of Ratification

Approved 2009-12-01

Revised 2018-04-23 by Faculty of Technology. Removal of ECTS-grading scale and course evaluation.

The course syllabus is valid from autumn semester 2018

### Prerequisites

General entry requirements for university studies.

## Objectives

On completion of the course, students are able to:

- understand and describe the need for and the importance of models in problem solving
- describe and explain some modelling and problem solving strategies
- select and apply suitable strategies for a given problem
- communicate and discuss problem solving issues

## Content

The course introduces students to:

- basic modelling principles with applications from computer science
- basic problem solving strategies with applications from computer science
- practical problem solving, individually and in groups

## Type of Instruction

Teaching consists of lectures, seminars and practicals. Practicals are carried out individually or in groups. Attendance at some activities is mandatory.

## Examination

The course is assessed with the grades Pass (G) or Pass (G).

The course is assessed with the grades Fail (U) or Pass (G).

Assessments of student performance consists of written and/or oral examinations and/or presentation of mandatory assignments. The assessment method is decided at the start of the course.

Students who do not pass the regular examination are given the opportunity to do a resit examination shortly after the regular examination.

### Course Evaluation

During the course or in close connection to the course, a course evaluation is to be carried out. The result and analysis of the course evaluation are to be communicated to the students who have taken the course and to the students who are to participate in the course the next time it is offered. The course evaluation is carried out anonymously. The compiled report will be filed.

### Other

Upon request, a Swedish University degree will be issued upon successful completion of the full demand for that degree.

Students who receive a passing grade in the course may download a course certificate through the Student Portal. Otherwise they may request a course certificate from the school secretary.

### Required Reading and Additional Study Material

#### **Required reading**

DFM, *Material*. Pages app. 150.