DD1371 Decision Support Systems 7.5 credits

Beslutstödssystem

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

Establishment

Course syllabus for DD1371 valid from Autumn 2009

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Language of instruction

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

Intended learning outcomes

The students shall after taking this course:

- be able to describe different kinds of decision support systems and explain their function
- be able to describe and explain how decision support systems can be used in different kinds of organisations
- be able to analyse a typical decision situation in the finance marketor estate management, and to apply relevant theory in order to evaluate different alternatives
- be able to evaluate the impact decision support systems have on organisations and their operation.

Course contents

The basics of decision theory, data mining, neural networks, artificial intelligence, and data warehousing.

Course literature

The topics covered by the course are described in the official course book **Decision Support and Business Intelligence Systems** (ninth edition), by Turban, Sharda and Delen (Pearson ISBN 978-0-13-245323-3). This book aspires to cover the whole area, i.e. write a little bit about everything. The course will concentrate on the following themes: Decision theory, data mining, neural networks, artificial intelligence, and data warehousing, corresponding to parts of chapters 4, 5 ,6 ,7 ,8 and 12 in the book. Some of these themes will be covered in more depth in the course than in the book. The parts that are not treated by the course book will be described by handouts, which will be distributed on the lectures and/or be downloadable from the course home page. It should be possible to achieve a passed grade (E) on the course even without the course book.

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.

In this course all the regulations of the code of honor at the School of Computer science and Communication apply, see: http://www.kth.se/csc/student/hederskodex/1.17237?l=en_UK.

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.