



Course syllabus

Faculty Board of Science and Engineering

School of Computer Science, Physics and Mathematics

2IK035 Business intelligence och Data mining, 7,5 högskolepoäng

2IK035 Business Intelligence and Data Mining, 7.5 credits

Main field of study

Informatics

Subject Group

Informatics/Computer and Systems Sciences

Level of classification

First Level

Progression

G2F

Date of Ratification

Approved 2009-12-01

Revised 2010-11-26 by School of Computer Science, Physics and Mathematics.

Revision made for prerequisites and course evaluation.

The course syllabus is valid from autumn semester 2011

Prerequisites

60 credits, with a minimum of 40 credits in informatics/information logistics field including Database Design 15 credits (1IK013) or equivalent.

Objectives

The student is expected to be able to chart the need for external information in organizations as well as apply different methods and techniques in order to:

- collect information from external as well as internal sources
- store and analyze gathered information
- deliver information to the correct person in the correct format

Content

The course consists of one project divided into two parts.

Part 1:

- Exterior environment analysis.
- Supply Chain

- Decisions support system.

Part 1 is concluded with a presentation of the BI-model using an existing company as focus.

Part 2:

- Data Warehousing
- Data Mining
- On Line Analytical Process (OLAP).

Part 2 is concluded with a presentation of a BI-prototype using an existing company as focus.

Type of Instruction

The course consists of lectures, a project and mandatory assignments. The assignments are to be completed in groups or individually.

Examination

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

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

Assessment of the students' performance occurs through written and/or verbal exams, and/or presentation of the mandatory assignments. The main form of examination is decided when the course starts.

A student who has failed to pass a regular examination is offered a renewed opportunity to pass closely after the regular examination.

Course Evaluation

A course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The result of the course evaluation will be filed at the department.

Other

Upon request, a Swedish University course certificate will be awarded upon successful completion of the course.

Required Reading and Additional Study Material

Required reading

Moss, L. T. & Atre, S., *Business Intelligence Roadmap: The Complete Project Lifecycle for Decision-Support Applications*, Addison-Wesley, 2003. 576 pages.

Biere, M., *Business Intelligence for the Enterprise*, Prentice Hall PTR, 2003. 240 pages.