



## Course syllabus

Faculty Board of Science and Engineering  
School of Computer Science, Physics and Mathematics

2IK035 Business intelligence och Data mining, 7,5 högskolepoäng  
Business Intelligence and Data Mining, 7.5 credits

### **Main field of study**

Information Systems

### **Subject Group**

Informatics/Computer and Systems Sciences

### **Level of classification**

First Level

### **Progression**

G2F

### **Date of Ratification**

Approved by Organisational Committee 2009-12-01

The course syllabus is valid from autumn semester 2010

### **Prerequisites**

To access the course, a student needs to meet the basic requirements and 60 higher education credits (hec), with a minimum of 40 hec within the informatics/information logistics field, or possess equivalent experience, as well as knowledge of database technology or the equivalent.

## Expected learning outcomes

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 written course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. 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.