UNIVERSITY OF BORÅS

Business Intelligence 1
Business Intelligence 1
7.5 credits
7.5 högskolepoäng

Ladok Code: 22BI3D
Version: 3.1
Established by: Committee for Education in Librarianship, Information, and IT 2017-09-26
Valid from: Autumn 2017

Education Cycle: Second cycle
Main Field of Study (Progressive Specialisation): Informatics (A1N)
Disciplinary Domain: Natural sciences
Prerequisites: Degree of Bachelor of Science in Informatics.
Subject Area: Informatics/Computer and Systems Sciences
Grading Scale: ECTS-credits

Content
The course consists of two parts:
The first part is a general introduction to decision analysis. The first part gives an overview of the area of Business Intelligence with focus on decision analysis and decision processes. The second part is an introduction to data warehousing. This part of the course describes how data warehouses can be a central element in an organizations' Business Intelligence solution and as such be a tool for report-generation and further analysis.

Learning Outcomes
After passing the course the student should be able to, concerning:

Knowledge and understanding
1.1. give a detailed account of and discuss fundamental concepts and theories within Business Intelligence,
1.2. give a detailed account of and discuss fundamental concepts, theories and methods within data warehousing,
1.3. know about how decision analysis and decision processes are carried out in businesses,
1.4. know about the relationship of data warehouses to production and operational systems,

Competence and skills
2.1. create a decision support system report,

Judgement and approach
3.1. discuss fundamental concepts and theories within Business Intelligence,
3.2. discuss fundamental concepts and theories within data warehousing,
3.3. critically examine a decision support system report.

Forms of Teaching
The teaching consists of lectures, seminars and assignments.

The language of instruction is English.

Forms of Examination
The course is examined through:

- Assignment 1
Learning objective 1.1, 1.3
Credits: 1

Grading scale: Pass/Fail

- Assignment 2
Learning objective 2.1, 3.3
Credits: 1.5
Grading scale: Pass/Fail

- Written Examination
Learning objective 1.2, 1.4, 3.1, 3.2
Credits: 5,0
Grading scale: A-F

For a passing grade (A-E) on the entire course, the grade Pass (G) is required on *Assignment 1* and *Assignment 2* together with at least grade E on *Written Examination*. A higher grade on the entire course is thereafter determined by the grade on *Written Examination*.

Student rights and obligations at examination are in accordance with guidelines and rules for the University of Borås.

Literature and Other Teaching Materials

Ponniah, P. (2010 or the most recent version). Data warehousing fundamentals for IT professionals. Hoboken, N.J.: John Wiley & Sons.

Solberg Søilen, K. (2005 or the most recent version). Introduction to private and public intelligence. Lund: Student Literature.

Individually identified scientific articles (a minimum of 10 articles for seminar task 1 and a minimum of 10 articles for seminar task 2).

Scientific articles and other relevant materials selected by the course instructor and made available via the learning platform (a maximum of 150 pages).

Student Influence and Evaluation

The course is evaluated in accordance with the current guidelines for course evaluations at the University of Borås, where students' views should be sought. The course evaluation report will be published and disseminated to participating and prospective students in accordance with the current guidelines, and forms the basis for future development of courses and training programs. It is the course coordinator’s responsibility that the evaluation is performed according to current guidelines.

Miscellaneous

The course is part of the Master's programme in Informatics.