



UNIVERSITY
OF SKÖVDE

COURSE SYLLABUS

Data Warehousing - Technologies and Methods G1F

15 credits

Course code: IT382G

Version number: 6

Valid from: 1 January 2019

Ratified by: Curriculum Committee for Informatics

Date of ratification: 17 May 2018

1. General information about the course

The course is provided by the University of Skövde and is named Data Warehousing - Technologies and Methods G1F (Data Warehousing - teknologier och metoder G1F). It comprises 15 credits and is a first-cycle course. The level of progression is G1F.

The course is a part of the main field of study in Informatics. It can also be a part of the main field of study in Information Systems Development and Informatics. The disciplinary domain of the course is Technology.

2. Entry requirements

The course has the following entry requirements: passed IT354G Database Construction G1F (or the equivalent).

3. Course content

The course consists of two parts. The first part introduces the area of data warehousing, and describes how a data warehouse (DW) may be a vital cornerstone in business intelligence (BI)-solutions. The second part is practically oriented and focuses on developing a basic BI-solution, based on existing DW-technology.

4. Objectives

After completed course the student should be able to:

- describe and discuss essential concepts, theories and methods within data warehousing,
- describe and discuss essential concepts, theories and methods within business intelligence,
- design and implement a basic business intelligence-solution, based on existing data warehousing technology, and
- describe and discuss ethical considerations that can emerge within a business intelligence-solution.

5. Examination

The course is graded A (Excellent), B (Very good), C (Good), D (Satisfactory), E (Sufficient) or F (Fail).

To achieve a final grade in this course the following applies:

TRANSLATION FROM SWEDISH

The final grade is calculated as a weighted arithmetic mean value, where the value is an interpretation of the A-F scale onto a 4-0 scale, i.e. A=4, B=3, C=2, D=1, E=0, and the weighing is equivalent to the credits per course unit. The following formula is used: $(x*6+y*3+z*3)/12$

Example: *Grade A (4) on Written examination (6 credits), grade B (3) on Assignment 1 (3 credits) and grade C (2) on Assignment 3 (3 credits) give the weighted arithmetic mean value of $(4*6+3*3+2*3)/12=3.25$, rounded to 3, results in the final grade B.*

The final grade is issued only when all course units reach at least grade E/G (Pass).

The examinations of the course consist of the following modes of assessment:

- **Written examination**¹
6 credits, grades: A/B/C/D/E/F
- **Assignment 1**²
3 credits, grades: A/B/C/D/E/F
- **Assignment 2**
2 credits, grades: G/U
- **Assignment 3**³
3 credits, grades: A/B/C/D/E/F
- **Assignment 4**
1 credit, grades: G/U

¹This grade will represent x in the formula for final grade in the course.

²This grade will represent y in the formula for final grade in the course.

³This grade will represent z in the formula for final grade in the course.

Students with a permanent disability who have been approved for directed educational support may be offered adapted or alternative modes of assessment.

6. Types of instruction and language of instruction

The teaching is comprised of seminars/group discussions, supervision, project work, lectures, group assignments, presentations and teaching lessons.

The teaching is conducted in English.

7. Course literature and other educational materials

Ponniah, P. (2010). *Data Warehousing Fundamentals for IT Professionals* (Andra upplagan). Chichester: Wiley-Blackwell. ISBN 978-04-70-46207-2.

Research articles and book chapters as shown on the course home page.

8. Student influence

Student influence in the course is ensured by means of course evaluation. The students are informed about the results of the evaluation and potential measures that have been taken or are planned, based on the course evaluation.

9. Additional information

The content of the course corresponds completely or partially with the following course(s) and cannot be included in the required credits of a degree qualification:

- IS517G - Data Warehousing for Business Intelligence 15 hp

Further information about the course, as well as national and local governing documents for higher education, is available on the website of the University of Skövde.