Data Warehousing - teknologier och metoder G1F
Data Warehousing - Technologies and Methods G1F
15 credits

1 Name, Scope and Level of the Course
The course is provided by the University of Skövde and is named Data Warehousing - Technologies and Methods G1F. It comprises 15 credits and is on basic level. The level of progression of the course is G1F.

2 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.

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 Forms of Teaching
The teaching comprises lectures, group assignments, supervision, teaching lessons, project work, presentations and seminars/group discussions.

The teaching is conducted in English.

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:

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).

Registration of examination results:

<table>
<thead>
<tr>
<th>Name of examination</th>
<th>Credits</th>
<th>Grading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written examination¹</td>
<td>6 credits</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Assignment 1²</td>
<td>3 credits</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Assignment 2</td>
<td>2 credits</td>
<td>G/U</td>
</tr>
<tr>
<td>Assignment 3³</td>
<td>3 credits</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Assignment 4</td>
<td>1 credits</td>
<td>G/U</td>
</tr>
</tbody>
</table>
This grade will represent x in the formula for final grade in the course.

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

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

Students with a permanent disability who have been approved for special educational support may be offered adapted or alternative examinations.

6 Admission Requirements
Prerequisite courses for this course are: Passed courses: IT354G-Database Construction G1F (or the equivalent).

7 Subject, Main Field of Study and Disciplinary Domain
The course forms a part of the academic subject area of Informatics. The course is a part of the main field of study in Informatics at the University of Skövde. The course can also be a part of the main field of study in Informatics, Information Systems Development. The disciplinary domain of the course is Technology.

Every course at the University of Skövde belongs to a subject. The division of subjects is used for follow-up and quality assurance. A main field of study is an area in which a degree can be awarded. Disciplinary domain is a division which is used by the government for the allocation of resources for studies at basic level and advanced level.

8 Approval of Course and Course Syllabus
The course was approved by the Curriculum Committee for Informatics on 17 May 2018. This course syllabus was approved by the Curriculum Committee for Informatics on 17 May 2018. It is valid from 1 January 2019.

9 Overlapping with Another Course
This course cannot constitute a part of a degree also containing a course the content of which is totally or partly equivalent to the content of this course, e.g. Data Warehousing for Business Intelligence G2F 15 credits

10 Additional Information
Further information will be available on the university’s website before a course is given.

National and local regulations for higher education are available on the university’s website.

Upon completion of the course there will be a follow-up. The main purpose of this follow-up is to contribute to improvements of the course. The students’ experiences and views constitute one of the criteria for the follow-up and are gathered by means of course evaluations. The students will be informed of the results of the follow-up and any decisions regarding actions that are to be taken.

11 Course Literature and Other Educational Materials

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