School of Economics and Management

DABN15, Data Analytics and Business Economics: Working with Databases, 3.5 credits

Dataanalys och ekonomi: Att arbeta med databaser, 3,5 högskolepoäng

Second Cycle / Avancerad nivå

Details of approval

The syllabus was approved by The Board of the Department of Economics on 2020-09-15 to be valid from 2020-09-15, autumn semester 2020.

General Information

This is a single subject master course in data analytics and business economics. The course is mandatory in the master programme Data Analytics and Business Economics.

Language of instruction: English
(Teaching may be in Swedish if all registered students have a good knowledge of Swedish.)

Main field of studies	*Depth of study relative to the degree requirements*
Data Analytics and Business Economics	A1N, Second cycle, has only first-cycle course/s as entry requirements

Learning outcomes

Knowledge and understanding

Students shall have an understanding of:

- the basic principles of databases,
- relevant techniques for how to communicate and work with databases.

Competence and skills

Students shall have the ability to independently:

- apply techniques for storing and retrieving data from distributed databases,
- apply an interface for analysing database data in R.

Judgement and approach

Students shall have developed the ability to pursue further studies in the subject and should be able to search for and evaluate information with a high degree of independence.

Course content

This course covers data, data management and databases from a practical perspective. The student will gain a basic understanding of what databases are and what they are used for, as well as a vocabulary to use when communicating with database administrators and IT technicians. The course also treats how to extract data from a database using techniques such as SQL (Structured Query Language) and how to analyse such data in R. Data are important in today's industry and society, and this course aims to make the student ready and able to use them to his or her advantage.

Course design

1. Teaching: Tuition consists of lectures and exercises.

Assessment

1. Examination: The examination consists of online quizzes and home assignments. Other forms of examination may be used to a limited extent.

2. Limitations on the number of examination opportunities: –

The University views plagiarism and other academic dishonesty very seriously, and will take disciplinary action against students for any kind of attempted malpractice in connection with examinations and assessments. Plagiarism is considered to be a very serious academic offence. The penalty that may be imposed for this, and other unfair practices in examinations or assessments, includes suspension from the University for a specified period.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Grades

Marking scale: Fail, E, D, C, B, A.
1. Grading:

A (Excellent) A distinguished result that is excellent with regard to theoretical depth, practical relevance, analytical ability, and independent thought.

B (Very good) A very good result with regard to the above-mentioned aspects.

C (Good) The result is of a good standard with regard to the above-mentioned aspects and lives up to expectations.

D (Satisfactory) The result is of a satisfactory standard with regard to the above-mentioned aspects and lives up to expectations.

E (Sufficient) The result satisfies the minimum requirements with regard to the above-mentioned aspects, but not more.

F (Fail) The result does not meet the minimum requirements with regard the above-mentioned aspects.

To pass the course, the student must have been awarded the grade of E or higher.

2. Weighting grades from different parts of the course: –

3. Grading scales for different parts of the course: –

Entry requirements

Students admitted to the master programme Data Analytics and Business Economics are eligible for this course.

Further information

1. Transitional regulations: –

2. Limitations in the period of validity: –

3. Limitations: –

4. Similar courses: –

5. Limitations in renewed examination: –