

Course Syllabus

Applied Big Data and Cloud Computing 7.5 Credits*, First Cycle

Learning Outcomes

Upon completion of the course the students will be able to:

Knowledge and understanding

Course Content

The course covers data science concepts, techniques, and tools to support Big Data analysis. The course also covers popular cloud platforms as well as design and development of cloud applications. As well, the course includes a project on Big Data analytics with Cloud Computing infrastructures, basics of Cloud Computing, Big Data analysis, cloud infrastructure, monitoring and control of Cloud / Big Data solutions.

Assessment

Project work (3.5 credits), presentation of laboratory assignments (2 credits), and seminars (2 credits)

Forms of Study

Lectures, seminars, laboratory work, supervision, and project work.

Grades

The Swedish grades U–VG.

Project work (U, G, VG), Presentation of laboratory assignments (U, G), Seminars (U, G).

To pass the course with distinction (VG), students require a grade of VG in the project work.

Prerequisites

At least 60 credits in the main field of studies of Informatics, including the courses Object-oriented Design and Problem Solving, 7.5 credits, Artificial intelligence, 7.5 credits, Database Systems, 7.5 credits and Data Science & machine learning, 7.5 credits

Subject:

Information Systems

Group of Subjects:

Informatics/Computer and Systems Sciences



D.no:
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GIK2Q3

Disciplinary Domain:

Technology, 100%

This course can be included in the following main field(s) of study:

1. Information Systems
2. Microdata Analysis

Progression Indicator within (each) main field of study:

1. G2F
2. G2F

Approved:

Approved 20 May 2021
Valid from 7 July 2021