Department of Computer and Systems Sciences

Stockholm University

Syllabus

for course at advanced level

Project management and tools for health informatics
Projektledning och verktyg inom hälsoinformatik

7.5 Higher Education Credits
7.5 ECTS credits

Course code:	ML413N
Valid from:	Autumn 2018
Date of approval:	2018-03-26
Department	Department of Computer and Systems Sciences
Main field:	Health Informatics
Specialisation:	A1F - Second cycle, has second-cycle course/s as entry requirements

Decision

This syllabus was approved by the Head of the Department 2018-03-26.

Prerequisites and special admittance requirements

45 ECTS in Health Informatics or equivalent.

Course structure

Examination code	Name	Higher Education Credits
413I	Project Management and Tools for Health Informatics, assnmt	4
413P	Project Management and Tools for Health Informatics, project	3.5

Course content

The course begins with facts and methods for project management and is then followed by methods, tools and project work for data science in health informatics.

Learning outcomes

After completing the course the student should be able to:
- explain basic project management methods
- be able to account for success factors in Health Informatics projects
- understand basic methods and tools in the field of data science and machine learning
- explain process models for data mining projects
- explain the difference between rule-based methods and machine learning methods
- apply basic project management methods
- work in an international multidisciplinary project group
- independently lead and implement a limited project in health informatics - document the steps in the design of a prototype for a health informatics project
- apply the steps in a process model for data mining projects
- apply methods from the field of text mining on different types of health informatics problems
- explain and argue for their positions regarding the implementation of a health informatics project
- explain how to work with sensitive health information in a safe and ethical way.

Education

The teaching activities consist of
- lectures

- lessons
- supervision sessions
- and a final seminar.
The language of instruction in English.

Forms of examination

a. The course is examined through project work and assignments.

b. The final grading of the course is based on the following grading scale related to the learning outcomes of the course: A = Excellent, B = Very Good, C = Good, D = Satisfactory, E = Sufficient, Fx = Fail, F = Fail.

c. The grading criteria are communicated to the students at the start of the course.

d. In order to complete the whole course segment the student must obtain at least grade E (or P with Pass/Fail grades) in all course components/examinations.

e. In addition the following regulations also apply:

- Students who obtained grade E in an examination task are not allowed to rewrite the examination or resubmit the assignment in order to obtain a higher grade.
- Students who have failed the same examination task twice are entitled to have another examiner appointed, unless there are special reasons to the contrary.

Interim

When a course is discontinued, or its contents are substantially altered, the following applies:
- Failed examination tasks are replaced with other similar examination tasks according to a specific plan.
- If no similar examination tasks can be provided, at least three examination opportunities per examination task should be offered during a period of at least three terms from the date of the decision.

Limitations

The course may not be included in the degree together with another course whose content fully or partially corresponds to the content of the course.

Required reading

Information about course literature is available on the department's website - www.dsv.su.se - at least two months before the start of the course.