Linnæus University

Course syllabus

Faculty of Health and Life Sciences
Department of Medicine and Optometry

4XN017 Introduktion till hälsoinformatik, 7,5 högskolepoäng
Introduction to health informatics, 7.5 credits

Main field of study
Health Informatics

Subject Group
Other Subjects within Medicine

Level of classification
Second Level

Progression
A1N

Date of Ratification
Approved by Faculty of Health and Life Sciences 2020-01-20
The course syllabus is valid from autumn semester 2020

Prerequisites
General entry requirements for second cycle studies and English 6 or equivalent.

Objectives
After completing the course the student will be able to:

- describe and apply basic concepts in eHealth and health informatics;
- give examples of different types of digital information technology used for prevention, diagnosis, and treatment;
- reflect and discuss opportunities and challenges with eHealth from the perspectives of individual, organization, society, and globally;
- argue for the importance of information structure, interoperability, design, implementation and evaluation in eHealth;
- identify, critically review and describe research in health informatics.

Content

- Basic concepts in eHealth and health informatics, such as interoperability, information structure, usability and standards
- Health care systems in different countries
- eHealth for prevention, diagnosis and treatment
- Overview of opportunities and challenges with eHealth from the perspectives of individual, organization, society and globally
- eHealth strategies
- Examples of different types of research in health informatics
- Literature search and presentation of selected articles in health informatics

Type of Instruction
Teaching will be in the form of lectures, seminars and individual work.

Examination
The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

The course is examined individually through a seminar with an oral presentation (3 credits) and a written report (4,5 credits). The seminar is assessed with the grades Fail and Pass. The written report is assessed with the grade Fail, Pass and Pass with distinction. For the grade Pass on the course, this grade is required on all the examination assignments. For the grade Pass with distinction, the grade Pass with distinction is required both at the seminar and also for the written report.

Repeated examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University.

If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to give a customised exam or to have the student conduct the exam in an alternative way.

Course Evaluation
During the implementation of the course or in close conjunction with the course, a course evaluation is to be carried out. Results and analysis of the course evaluation are to be promptly presented as feedback to the students who have completed the course. Students who participate during the next course instance receive feedback at the start of the course. The course evaluation is to be carried out anonymously.

Required Reading and Additional Study Material
Mandatory litterature
Sheikh, A., Bates, D., Wright, A. & Cresswell, K. eds (2017). *Key Advances in Clinical Informatics Transforming Health Care through Health Information Technology,* Academic Press, ISBN: 9780128095232, 334 s.

Scientific papers, reports and documents, approximately 200 pages.