



**Karolinska
Institutet**

Course syllabus for

Informatics and Improvement Work in Health Care Organisations, 7.5 credits

Informatik och förändringsarbete i vårdorganisationer, 7.5 hp

This course has been cancelled, for further information see Transitional provisions in the last version of the syllabus.

Course code	5HI016
Course name	Informatics and Improvement Work in Health Care Organisations
Credits	7.5 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Health Informatics
Level	AV - Second cycle
Grading scale	Excellent, Very good, Good, Satisfactory, Sufficient, Fail, Fail
Department	Department of Learning, Informatics, Management and Ethics
Decided by	Programme Committee 5
Decision date	2014-03-19
Revised by	Education committee LIME
Last revision	2023-11-29
Course syllabus valid from	Autumn 2014

Specific entry requirements

Passed all courses from semester 1 and at least 10 credits from semester 2 at the Master's programme in health informatics.

Objectives

On completion of the course, the student should be able to apply evidence-based knowledge to lead and manage improvement projects in healthcare supported by health informatics.

On completion of the course, the student should be able to:

Management and leadership

- Explain how management, leadership, organisation and structure influence the organisation's ability to reach its defined goals and visions.
- Initiate, lead and support improvement work within healthcare.
- Argue for and against different improvement strategies.

Improvement work

- Apply different improvement tools and methods to identify problems, test ideas at a small scale, evaluate results and present how these can improve healthcare.
- Apply theories of change management in improvement of health care services.
- Apply health informatics methods to support improvement work in health care.

Content

The course should introduce the students to the subjects management, leadership and improvement work. The content of the course builds on practice experiences and skills as well as reflections on how theories within leadership, learning, improvement work and health informatics can be applied to improve healthcare. During the course, the student will continuously test and apply newly acquired knowledge. At the end of the course, each student will thereby have gained experience and have learned concrete tools to be able to improve healthcare.

Teaching methods

The course facilitation aims to integrate informatics, management and leadership. The working methods of the course aim to train interaction, critical reflection and analysis based on a scientific approach. In this course, different student-centered working methods are used to stimulate an active knowledge acquisition and to optimise the possibility to achieve the expected learning outcomes of the course. These activities can include storytelling, seminars, pauses for reflection, cases, case methodology, PBL with support lectures, case-in-point, "peer-to-peer" feedback and miniprojects. There will be both physical and virtual (web-based) meetings.

Examination

The course will be examined through individual assignments (A-F), a group assignment (pass/fail) and an oral presentation (pass/fail)s. In order to pass the course the student needs to pass all the exams.

In accordance with evidence based pedagogy, formative examination will be used during the course so that both teachers and the student will be able to follow the student's development towards attaining the outcomes while ensuring that support is offered when needed.

Compulsary participation

The course introduction, the final examination and certain exercises/seminars indicated in the course schedule require active participation. The course director assesses if, and in that case how, absence can be compensated. Before the student has participated in all compulsory parts or compensated absence in accordance with the course director's instructions, the student's results for the course will not be registered in LADOK.

Limitation of number of occasions to write the exam

The student has the right to write the exam six times. If the student has not passed the exam after four participations he/she is encouraged to visit the study advisor.

The number of times that the student has participated in one and the same examination is regarded as an examination session. Submission of a blank examination is regarded as an examination. An examination for which the student registered but not participated in will not be counted as an examination.

Transitional provisions

After each course occasion there will be at least six occasions for the examination within a 2-year period from the end of the course.

Transitional provisions

The course has been cancelled.

Other directives

Course evaluation will be carried out in accordance with the guidelines established by the Board of Higher Education.

The course is given in English.

Literature and other teaching aids

Recommended literature

Since leadership, management and informatics are constantly evolving, there is no mandatory literature

Bohmer, Richard M. J.

Designing care : aligning the nature and management of health care

Boston, Mass. : Harvard Business Press, cop. 2009 - x, 261 s.

ISBN:978-1-4221-7560-6 (inb.) LIBRIS-ID:11612887

[Library search](#)

Improving Patient Care : The Implementation of Change in Health Care

Wiley-Blackwell,

LIBRIS-ID:14601801

Advanced Performance Improvement in Health Care

Jones and Bartlett Publishers, 2011

LIBRIS-ID:14085545

Jackson, Brad; Parry, Ken W.

A very short, fairly interesting and reasonably cheap book about studying leadership

Los Angeles ;a London : SAGE, 2008 - x, 162 s.

ISBN:1-4129-2845-1 (hbk.) LIBRIS-ID:10734881

[Library search](#)

Digital Infrastructure for the Learning Health System : The Foundation for Continuous Improvement in Health and Health Care: Workshop Series Summary

National Academies Press, 2011

LIBRIS-ID:13508465

Health information management : integrating information technology in health care work

Berg, Marc

New York, N.Y. : Routledge, 2004 - xiv, 234 s.

ISBN:0-415-31518-2 (inb.) LIBRIS-ID:8979651

[Library search](#)

Completion of scientific articles will be added throughout the course.