

# Technology and Digitalization in Healthcare Services

Teknologi og digitalisering i helse- og omsorgstjenester

## Course Content

Innovative and health-promoting services with integrated digital solutions are becoming increasingly relevant for both service users and employees within healthcare services. In this context, eHealth, welfare technology and digital home monitoring are key terms. Technology and digitization in the healthcare sector can promote users' independence, security and societal participation, as well as contribute to the development of assistive devices for use by healthcare employees.

In this course, various technologies and digitization in healthcare services will be discussed, focusing mainly on municipal services and in-home service users. This course takes an interdisciplinary approach and introduces key terms connected to the healthcare service context, mainly in Scandinavia. A special focus is directed at contributing to the implementation of new and improved services in relation to health promotion, prevention, rehabilitation and treatment. Throughout this course, there are reflections on value-based aspects and ethical dilemmas, in addition to the experience of dignity and the right to privacy, perceived safety and security, as well as legislation.

There will be a focus on health-promotion, collaboration and the need for new ideas in healthcare services, from both national and international perspectives.

Main Subjects:

- introduction to health-promoting technology and digitization in healthcare services
- regulations, frameworks, political objectives and incentives for the implementation of technologies and digitalization
- ethical implications and current legal aspects relevant to the introduction and use of technological solutions and digitization in healthcare services
- prerequisites, benefits and limitations when implementing and using technologies and digitization in healthcare services
- collaboration and participatory work with service users, relatives, end users, service providers and developers/producers

**Course Code:** MAELDRE6054

**Number of ECTS:** 10

**Available as Single Course:** Yes

**Type of Course:** Compulsory

**Cycle:** Second Cycle

**Year of Study**

**Full Time:** Not Relevant

**Part Time:** Year 2

**Language of Instruction:** English

**Campus:** Oslo/Partly Online

**Semester:** Spring

**Compulsory Attendance:** No

**Professional Training:** No

**Length of Professional Training:** -

**Scope of Tuition:**  
30 hours

**Scope of Other Learning Activities:**  
0 hours

**Scope of Self-Study Activities:**  
240 hours

**Total Workload:**  
270 hours

**Prerequisites:** None

## **Learning Outcomes**

Completing this course will give students the following learning outcomes, divided into knowledge, skills and general competence:

### **Knowledge:**

The student

- has in-depth knowledge of the importance of health-promoting technologies and digitization in healthcare services
- has in-depth knowledge of the legal aspects, possibilities and limits of various welfare technology solutions, eHealth and digitization adapted to the needs of different user groups
- has knowledge of relevant theories, models and methods for innovation and implementation

### **Skills:**

The student

- can identify and analyse professional issues related to technologies and digitization in the healthcare sector, at the micro-, meso- and macro-levels
- can identify and describe the most important technical and health/welfare prerequisites for enabling technological solutions to work
- can apply various methods and tools, including profit realization in innovation and implementation processes
- can analyse and relate critically to the societal context and welfare policy guidelines linked to technologies and digitization

### **General Competence:**

The student

- can contribute to user participation in the development, testing and evaluation of various health-promoting technologies and digitization in municipal healthcare services
- can reflect critically on and contribute to professional development in interaction with other professions, service users and relatives in the innovation and implementation of technologies and digitization
- can reflect upon and communicate ethical/value-based assessments and legal aspects related to the use of technologies and digitalization

## **Work and Teaching Methods**

- Resource lectures/seminars
- Online and on-site seminar days
- Student presentations
- Group work
- Counselling
- Self-study
- Co-student feedback

## Compulsory Activities

- Oral presentation of a proposal for development work related to the topic of the course

Compulsory activities must be passed to sit for the exam.

## Assessment

Form of Assessment	Duration	Grade
Home Exam	7 days	A-F

### Additional Information About Assessment:

The home exam consists of an individual written text of 3000 words (+/-10%).

## Other

Student admission takes place based on a bachelor's degree (180 credits) or another degree or education at an equivalent level, of at least three years' scope within health, social and other similar welfare subjects. Applicants with a pedagogical or a social study education at an equivalent level can be admitted after individual assessment. For these applicants, a minimum of one year's relevant welfare work experience after graduation must be documented. In the individual assessment, relevant practice and the scope of relevant subjects/courses in the subject area will be used as a basis.

## Reading List

See Leganto.