SUMMER COURSE

EMPOWERING INNOVATION THROUGH TECHNOLOGY

EXPLORING THE POTENTIAL OF TECHNOLOGIES SUCH AS TECHNICAL DEVICES, VR AND AI IN THE BROADER HEALTHCARE DOMAIN

16 - 20 JUNE 2025

DESCRIPTION

During this course, you learn to approach challenges thoughtfully and effectively. You explore innovation grounded not in surface issues but in the underlying causes of problems. The course introduces the Healthcare Requirements Approach (HRA), equipping you with the mindset and tools needed to identify the root causes of healthcare challenges.

Throughout the course, you tackle real-world healthcare problems and visit external parties who are directly involved in these problems. You also explore cutting edge technologies in our iXperium Health Lab. Here you experiment with tools such as robotics, VR, AR, smart apps, and more.

Mornings will focus on HRA theory, while afternoons are dedicated to applying what you've learned to real-world problems. Along the way, you'll engage with guest speakers and site visits to enrich your learning experience.

LEARNING OUTCOMES

After completing this course, you will be able to:

Learning outcome 1

Gain a comprehensive understanding of a realistic problem/question in the health and welfare domain by exploring the underlying question, and looking at the root cause of a problem.

Criteria
- The initial stakeholders, context and objectives are described
- The descriptions are aligned, reinforce each other, and contain no contradictions

Activities
- Interview initial stakeholders
- Theory lessons, including examples

Learning outcome 2

Develop a substantiated program of requirements based on the procedures of relevant stakeholders you plan to involve. The program of requirements includes acceptance criteria to clarify the core question.

Criteria
- The requirements are logically based on the description of the procedures of the relevant stakeholders

Activities
- Theory lessons, incl. coaching on practical assignment

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Learning outcome 3

Apply the Healthcare Requirements Approach of various stakeholders and gather information from them.

Criteria
- Based on the initial stakeholders, several other stakeholders have been consulted.
- A one-page summary outlines the actions (procedures) performed by each stakeholder within the context
- These summaries collectively contribute to articulating a clear understanding of the overall problem

Activities
- 2 guest lectures: Medical Directives and Health Economics
- Interview with at least one stakeholder
- Overview of tools/methods (questions) for uncovering the underlying question using a digital tool

Learning outcome 4

Select a tool from various types of technology used in healthcare.

Criteria
- The preferred tool is described, and the underlying question has been correctly substantiated

Activities
- 3D printing
- Practice using applied health technology at the Xperium Health Lab

EXAM FORMAT

Assessment and program of requirements.

STUDY LOAD

16 hours: Theory classes
24 hours: Contact hours
8 hours: Field trips
8 hours: Self-study/preparation

PREPARATION

The preparation assignment will be sent a few weeks before the start of the course:
- Watch 2 TED Talks
- Identify three existing technological solutions that help your target population adopt one or more of the nine habits for living to 100+
- Find an example of a technological solution or product where the creator clearly failed to consider the needs of the target audience

FIELD TRIP

Visit and guided tour to a newly build, state of the art hospital in the Nijmegen area.

CREDITS

If you successfully complete this course, including preparation and assignments, you earn 2 ECTS credits.

ADMISSION REQUIREMENTS

- You're an undergraduate student from a partner university. We also accept master students.
- Your study is related to nursing, health, social and mental health care, health management or education.
- If you are not a native speaker of English, your English proficiency level is at least B2 (CEFR), IELTS 6.0 or TOEFL iBT 80.

OPEN UP NEW HORIZONS.

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QUESTIONS?
Send an email to:
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