




# RESEARCH ON EDUCATION TECHNOLOGIES



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**In ICT unit, research on education technologies has been going on for a long while. Resulting from the research a well-functioning blended adult education model has evolved within the Master Studies in Mathematical Information Technology.**

The model combines various teaching methods which make good use of information and communication technology. The model is based on versatile use of video lectures realized with streaming technology, distance guidance tools and learning management systems.

For the past few years, the research on education technologies has principally focused, as far as time and place are concerned, on the development of flexible technological solutions and pedagogical operation models related to them. Research is carried out mainly with project funding, in cooperation with industry and society around us. The ICT unit has had a long experience in project activities.



# SmartCampus Project

SmartCampus is a virtual and intelligent educational solution in which physical and virtual campuses are integrated into a functional whole. It enables individualized and flexible study, both in a traditional face-to-face mode and as a distance study. SmartCampus is formed of several technological solutions that are built on the existing environment where they blend to each other, and of practices evolved with them.

## Objectives

- Improve interactivity and solutions which promote student participation.
- Increase students' awareness related to their own study strengths.
- Develop remote laboratory solutions.
- Improve the quality control of education and create entirely new quality control tools.
- Develop the practices of digital recognition of competence.

## Results

From the viewpoint of students, the project makes it possible to participate in the education offered, individually and according to the needs of each student.

For educational organizations, the work carried out by the project creates solutions with which it is possible to meet the challenges posed by life-long learning and rapid changes in working life.



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