



UNIVERSITY OF HELSINKI

EXAM

15 - Tool for digital exams

Benefits from user-level to national level



UNIVERSITY
OF TURKU

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EXAM

- An electronic exam room is a place where students can take exams with a computer at times best suitable for them, inside a predefined exam period.
- Usually the teacher makes several alternative questions for the exam, and the system randomly allots the questions for each student. Exam is suitable for exams that do not contain the same set of questions for all students.
- Access to the internet is restricted only to the exam system. There is a recording video surveillance in the exam rooms.



EXAMINATION PROCESS

- Process for general exams:
 1. The teacher creates an examination to the system with questions and publishes it.
 2. The student registers in student register (Oodi, NettiOpsu etc.) to an examination or to a course and reserves a place in the examination system. 
 3. The student takes the exam in an exam room.  Weekly
 4. The teacher assesses the examination in the system
 5. The student receives feedback and the grade by email. Grades marked as “Whole course grades” are (almost) automatically sent for student registration. 
- It is also possible to create personal exam for specific students.



BENEFITS

For the teacher:

- No more issue with illegible handwriting
- No more piles of exam papers
- Assessment can be done anywhere
- Automatic grading of multiple choice and fill-in-the-blanks questions
- Question repository -> questions can be reused
- Easy to provide personal feedback
- No need to invigilate
- No more manual registration of exam results.

For the student:

- Flexibility: freedom to choose time
- Easier to modify text and write with the computer
- More feedback

For the administration:

- No more collecting exam questions,
- No more organizing exam situations
- No more printing or sending exam papers
- Automatic registration



POSSIBILITIES

- Suitable for literature exams, re-takes, maturity exams
- Also for course exams (the length of the exam period and exam time in relation to course size)
- Softwares available* to students on exam computers: Word (without the spell check function), Excel, Paint, Note, Dia, Inkscape, RStudio, a PDF reader and a basic calculator.
- Maximum exam time up to 175/235 minutes*
- Exam rooms are open 12 months a year, also on weekends*
 - Access to Exam rooms: electronic tag / access badge / key*

* = varies from university to university



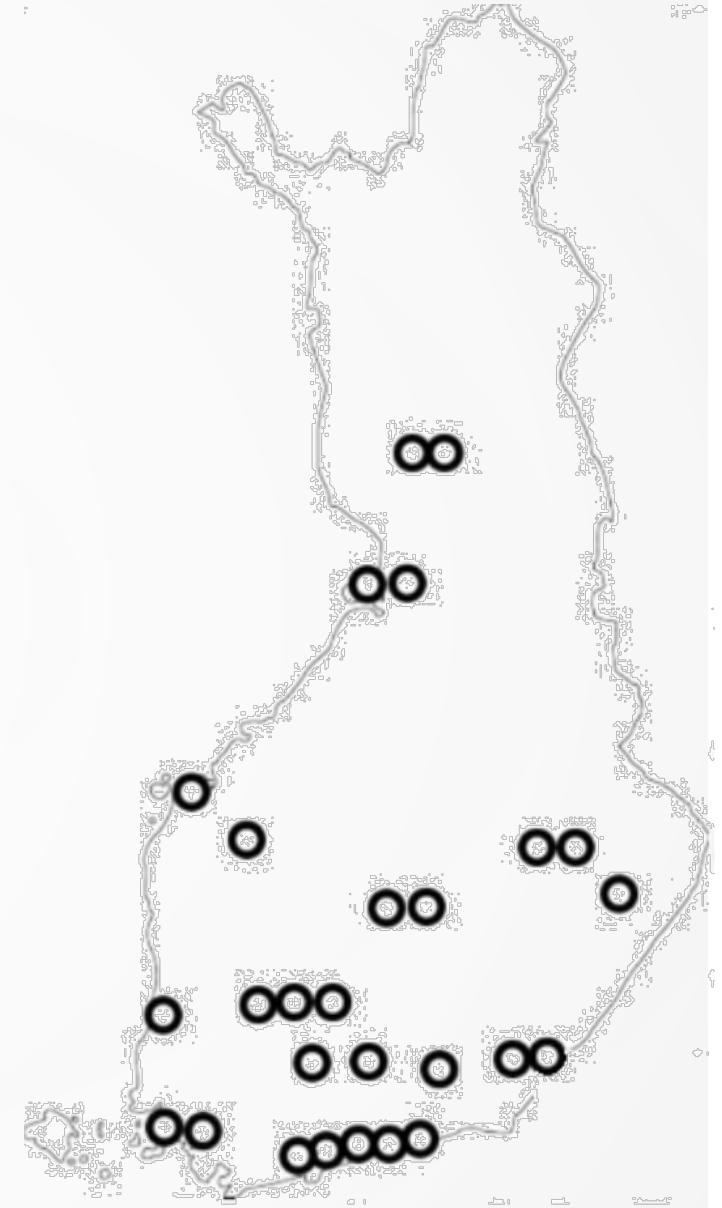
CONSORTIUM OF UNIVERSITIES

- EXAM is developed and used by a consortium of Finnish Universities and Universities of Applied Sciences (25)
 - Boarding group, executive committee
 - Developer group, product owners
- With the support from the Finnish IT Centre for Science - CSC and Valamis Ltd
 - CSC: project management
 - Valamis: developers
- To be used for organizing electronic exams in higher education



COLLABORATION ON NATIONAL LEVEL

- The same exam system enables collaboration
 - Exam visit
 - Joint exams
- Every university has their own installation
 - Separate "joint use service" for exam visits and joint exams. Voluntary to take part.





EXAM VISIT

- Exam visit = the student can take his/her own university's exam in another university's Exam room.
- For teachers the exam visit does not cause any extra work. The teacher uses only his/her own university's EXAM.
- The student must check in advance each university's exam rules and regulations as well as the opening hours and how to access the exam room.

2. Choose room [Exam room reservation from external institution >](#)

[Accessibility type >](#)



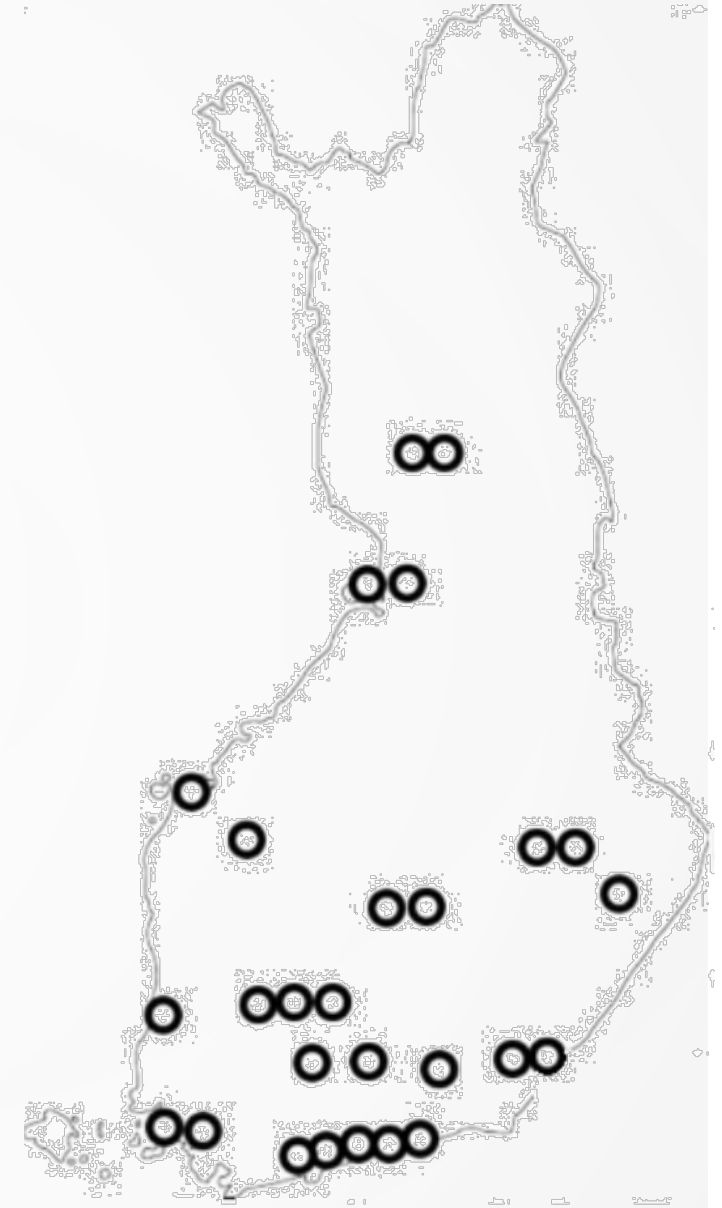
JOINT EXAMS

- Teachers from different universities can create an exam together using their own university's EXAM.
- Students from different universities can take the same joint exam using their own university's EXAM-system and exam rooms.
- National exams for specialist degrees in medicine / dentistry
 - First joint exams
 - 5 universities, over 50 specialist degrees



ENABLING COLLABORATION

- There are differences in rules and practices for taking the exam and in invigilation process
 - Contracts: National Cross-Institutional Study Service - Development project
- “HAKA-login” enables logging to the EXAM system when using other organization’s exam room
 - Haka is the identity federation of the Finnish universities, polytechnics and research institutions.
 - Users are able to access other organization’s services using own universities user account and password.





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THANK YOU!