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# Music Technology as a Part of a Nationwide Music Curriculum and Teaching Material Resource

# Music Technology

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Skills and knowledge:

- communication, security, background
- music production and editing technology
- sound reinforcement and recording technology

# Music Technology

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- Technology brings a new method to approach and produce music; music technology.
- It enables music making without formal studies.
- Peer-to-peer network: many times the first experience to make music
  - communication over the Internet
  - own band projects
  - may lead to formal studies
- Formal music teaching has to take into account music technology
- There is no path for music technology studies from the beginning to higher education institutes

# Background for Two Development Projects

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- In Finland music, art, dance and arts and crafts institutes provide extracurricular art education for children and young people.
- Each institute or music school makes its own syllabus and normally it consists of private lessons, music theory and playing in a band.

# Meanwhile

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- The number of the pupils is decreasing
  - Besides, pupils are mainly girls, how to get boys to engage music studies?
- Music technology, which is already a part of young learners' everyday lives, does not have a very big role in the teaching in the music schools.

# Background for Two Development Projects

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- Music technology is taught in several schools, music schools, vocational and higher education
- The objectives and contents vary a lot
- Learning material and even terminology are miscellaneous
- Active music teachers started 2007 to produce music technology learning material to web pages together.
- A group of music schools started 2009 music technology curriculum work.

# Two Development Projects

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Supported by the Finnish National Board of Education

1. Curriculum Development Project, phase 1, 2011–2012.
2. Music Technology Teaching Material Project 2011–2013.

# Curriculum Development Project

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- First phase: a plan for a pilot
- Phase two: one year pilot puts into practice music technology studies in three or four music schools. Music technology is taught as an second instrument.
- Phase three: pilot will be scrutinized. A model for music technology curriculum will be published 2014.



# Curriculum Development Project

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- Curriculum is divided to introduction and basic studies
- Introduction is a short course including
  - the basic use of a computer,
  - elementary recording techniques,
  - introduction to note writing,
  - introduction to music delivery in the Internet.
- For all pupils and students, 6–10 h

# Curriculum Development Project

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- Basic studies are weekly lessons for a small group, 4–6 years (240 h):
  - Music technology as a tool for making music creatively (140 h)
  - Sound reinforcement (40 h)
  - Note writing (25 h)
  - Music delivery (15 h)
  - The history of music technology (20 h)

# Music Technology Teaching Material Project

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- In tight connection with the curriculum project
- Same planning and administration team
- Free orientating material for music technology studies, not the manuals rewritten
- For music schools and vocational schools; primary, secondary and upper secondary schools; for continuing studies and self-studies

# Music Technology Teaching Material Project

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## Benefits:

- Tools and methods for music lessons
- Intensification of music lessons
- Enhance the skills of musicians and music teacher
- Overall better understanding of information and communication technology

# Music Technology Teaching Material Project

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- Status, ready: Audacity, Audiotool, Finale NotePad, Logic Pro, Main Stage, Melodyne, Mixing desk, Mobile devices and music, Reason, Sound synthesis
- Status, under construction: Cubase, Reaper, Renoise, Sibelius 7
- Status, will come: Ableton Live, Audio technology basics, Cloud technologies, Digital audio basics, Game music, Internet delivery basics, Introduction to acoustics, Introduction to sound reinforcement, Linux and music, Microphone techniques, Online resources for music, Processing techniques, Protect your hearing, Pro Tools 10, Publishing tools for music teachers, Social media and music, Studio technology basics

# SIG: Music Technology

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