NordNICE - **Nordplus Network on Innovative Computing Education**

Coordinator: **Vilnius University**

Project period: **07/2015 - 06/2017**

Aim of the project

- To expand collaboration **between school teachers and researchers** in the fields of **computing education and teacher education**

- To develop **frameworks for computing teacher training** in the partner countries

Partners

Universities

- Aalto University (FI)
- Åbo Akademi University (FI)
- Uppsala University IT Department (SE)
- KTH School of Education and Communication in Engineering Science (SE)
- Linköping University (SE)
- University of Tartu (EE)
- University of Latvia - Faculty of Computing (LV)

Schools

- Lumo Upper Secondary School (FI)
- Sotunki Upper Secondary School (FI)
- Vilnius Jesuit Gymnasium (LT)
- Vilnius Lyceum (LT)
- Söndrumskolan F-9 (SE)
- Trönningeskolan F-9 (SE)

NordNICE activities

➡️ **Year 1**

➡️ WP1. Building understanding of what computing is at different K-12 educational levels

➡️ WP2. Guidelines for computing teacher education and competencies

➡️ WP3. Dissemination of year one project results.

➡️ **Year 2**

➡️ WP4. Development of framework for computing teacher training

➡️ WP5. Dissemination of project results

Building understanding of what computing is at different K-12 educational levels

▶ A joint **understanding of what computing and computational thinking** involves in the education levels K-12 based on existing standards and curricula.

▶ Focus on **methods for teaching computing** at schools combining research results with best practices from schools.

▶ --------------------

▶ **Develop, distribute and collect data** through a survey tool and online interviews to document **the present state of computing teachers' education** and approaches to teaching computing and CT in the partner countries.

▶ **Benchmark the challenges** experienced by teachers in regard to national curricula.

http://nordnice.wixsite.com/nordplus/meetings

Network on Innovative Computing Education – NordNICE

NORDPLUS

Create a WiX site!

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Meetings

NordNICE Workshop: Computational thinking in Practice in Primary Education – Halmstad, Sweden March 1-3, 2017

The goal of this workshop is to highlight, discuss and work with some of the practical aspects of introducing computational thinking in primary education.

The target audience is both the NordNICE partners and teachers interested in computational thinking in primary education.

The program includes visits to three schools that have been working with computational thinking and programming with their pupils and presentations of concrete activities aimed mainly at teachers.

NordNICE Workshop: Computational thinking in Practice in Primary Education – Halmstad, March 1-3, 2017

Thursday March 2

- 08.30-10.00 Visit **Trönningeskolan**, Grade 5 *Tinkercad create 3D design of my own room at home*, Grade 8 *Arduino in the subject technology*
- 10.30-12.00 Visit **Eldsbergaskolan**, *Programming integrated in different subject knowledge*
- 13.15-15.00 Programming *Kojo och code.org* Grade 9, Söndrumsskolan
- 15.30-17.30 Visit DLC

Friday March 3

Two parallel tracks, one for teachers and one for school leaders

Teacher Track (both in English and Swedish)

- 09.00-11.30 Micro:bit, Niels Swinkels
- 09.00-11.30 "Build your own robot!" Återbruken Returen
- 09.00-11.30 Minecraft, Felix Gyllenstig Serrano

School Leader Track (Swedish)

- 09.00-09.30 Digital Competence and Programming in the New Swedish Curriculum, Fredrik Heintz (Linköping University)
- 09.30-10.00 School and learning in a digital world, Anna Carlsson & Johanna Karlén (SKL)
- 10.30-11.00 Leda digitalt utvecklingsarbete, varför, vad och hur?, Malin Frykman (Kungälvs kommun)

Request for your help

➡Each country should contact 3-5 schools (K-9 better) and ask teachers to fill out the questionnaire

➡1-2 CS related teachers Informatics/Computing) and 1-2 teachers who are not currently doing so, but will be expected to do so in the near future

➡The questionnaire is here: https://goo.gl/forms/CKyK11dV5K4gzRWJ2

Thanks

2017 February 9