



Nordplus workshop
Culturally Diverse Approaches to Learning Mathematics and Computational Thinking

in cooperation with the International Doctoral Consortium on Informatics and Informatics Engineering Education Research

AGENDA

Friday, November 30

- 14:30 *Bus from Vilnius airport*
18.00 *Dinner*
20:00 *Welcome and discussion (please bring your bath suits)*

Saturday, December 1

- 07.30 – 09.00 *Breakfast*
09.00 – 10.30 Don Passey (Lancaster University, UK). Suggestions and criteria for developing computer science education research.
10.30 – 11.00 *Coffee break*
11.00 – 11.15 Valentina Dagiene (Vilnius University). Introducing to the Nordplus project: Bebras & ViLLE (including research questions)
11.15 – 12.00 Mikko-Ville Apiola (University of Turku, Centre for Learning Analytics) Presentation the collaborative education platform ViLLE
12.00 – 13.00 *Lunch*
13.00 – 14.30 Willem van der Vegt (Windesheim University for Applied Sciences, Zwolle, The Netherlands) Bebras tasks. A bridge between informatics concepts and challenging questions
14.30 – 16.00 Practical work in two groups: 1. Doctoral students (working on developing posters). 2. Nordplus participants (working on interactive Bebras tasks).
16.00 – 16.30 *Coffee break*
16.30 – 18.00 Reflection on students' posters: all participants will read posters and write down their questions and comments.
18.00 – 18.30 *Dinner*
19.00 – 22.00 Discussions on ViLLE. Doctoral research discussions in groups

Sunday, December 2

- 07.30 – 09.00 *Breakfast*
09.00 – 11.00 Erik Barendsen (Radboud University and Open University, The Netherlands). Workshop on research methods (topics to be chosen together with the participants).
11.00 – 11.30 *Coffee break*
11.30 – 12.00 Practical work in two groups.
12.00 – 13.00 *Lunch*
13.00 – 14.30 Don Passey (Lancaster University, UK). Developing a computer science curriculum underpinned by fundamental learning theory
14.30 – 16.00 Practical work in two groups: 1. Doctoral students (working on developing posters). 2. Nordplus participants (working on Bebras tasks integrating to ViLLE).

- 16.00 – 16.30 *Coffee break*
16.30 – 18.00 Continuation of the work in small groups.
18.00 – 18.30 *Dinner*
19.00 – 22.00 Read posters and write down their questions and comments

Monday, December 3

- 07.30 – 08.30 *Breakfast*
08.30 – 12.00 Visiting Druskininkai Saules progymnasium. Tour in the school. (1) Introducing ViLLE to 3rd grade pupils (Mikko-Ville). (2) Discussion on Informatics for primary education in UK, Netherlands, Finland, Sweden (panel discussion, Don, Erik, Willem, Mikko-Ville, Arnold).
12.00 – 12.30 *Lunch (in the school)*
12.30 – 13.30 Informatics curriculum for primary schools (Valentina). Discussion with teachers and coffee break.
15.00 – 15.30 *Beck to Dainava.*
15.30 – 17.00 Arnold Pears (KTH – Royal Institute of Technology, Sweden) and Valentina Dagiene (Vilnius University). *Nordplus* project: Preparation material for teacher training on cultural diverse approaches teaching mathematics and computational thinking.
17.00 – 18.00 Presentation of group works and new ideas.
18.00 – 18.30 *Dinner*
18.30 – 20.00 Continuation of the Presentation of group works and new ideas.

Tuesday, December 4

- 07.30 – 09.00 *Breakfast*
09.00 – 10.30 Mirjana Ivanovic (University of Novy Sad, Serbia) Learning Analytics: problems and future works.
10.30 – 11.00 *Coffee break*
11.00 – 12.00 Arnold Pears (KTH – Royal Institute of Technology, Sweden). Proposals for further work and activities. Planning a research work and dissemination of the project ideas.
12.00 – 13.00 *Lunch*
13.00 – 16.00 Practical work in two groups: 1. Doctoral students (working on developing posters). 2. *Nordplus* participants (working on Bebras tasks and ViLLE).
16.00 – 16.30 *Coffee break*
16.30 – 18.00 Final discussion and proposals for future work.
18.00 – 18.30 *Dinner*

Wednesday, December 5

- 07.30 – 09.00 *Breakfast*
09.30 *Departure to Vilnius airport*