Co-funded by the Erasmus+ Programme of the European Union

TeaEdu4CT - Future Teachers Education: Computational Thinking and STEAM

Student training school for Computational Thinking and STEM

AGENDA (C1)

Date: **September 13-17, 2021**
Venue: Vilnius University Central Building, rooms **238** & **239**
Address: Universiteto str.3, Vilnius
Participants: Students future teachers from Vilnius, Paderborn, Tallinn and Vienna

Monday, September 13 (room 239)

(for partners from abroad)

10:00–10:30 Welcome and enjoying being together!

10:30–11:30 Presentation of teacher education at Vilnius university

11:30–12:00 Questions and discussion & Photo

12:00–13:00 Lunch Break (restaurant "Fiorentino", Universiteto str. 4)

13:00–14:00 Welcome to the training school. Introduction: presentations from students from Austria, Estonia, and Germany. Presentation of Lithuanian students by study groups.

14:00–14:15 Introduction to the TeaEdu4CT project. Questions
prof. dr. Valentina Dagienė, Vilnius University, Lithuania

14:15–15:30 Module O9: **Using Constructivism, and Project and Challenge Driven Pedagogy for learning Computational Thinking**
prof. dr. Arnold Pears, KTH Royal Institute of Technology, Sweden
lic. Helena Isacsson Persson, KTH Royal Institute of Technology, Sweden

15:30–16:00 Questions and discussions

Tuesday, September 14 (rooms 239 & 238)

Students work in two parallel groups

09:00–10:00 Introduction to the Module O2 (for all students): **General introduction of Computational Thinking: A basic module suitable for all teachers**
room 239
prof. dr. Erik Barendsen, Radboud University, The Netherlands

10:00–11:30 Work with the Module O2 material (two groups in parallel)
239 & 238
prof. dr. Erik Barendsen, Radboud University, The Netherlands
prof. dr. Gerald Futschek, Vienna University of Technology, Austria
prof. dr. Yasemin Gülbahar, Ankara University, Turkey
Michael Lenke, University of Paderborn, Germany

11:45–13:15 Work with the Module O2 material (two groups in parallel)
239 & 238
prof. Erik Barendsen, Radboud University, The Netherlands
prof. dr. Gerald Futschek, Vienna University of Technology, Austria
prof. dr. Yasemin Gülbahar, Ankara University, Turkey
prof. dr. Michael Lenke, University of Paderborn, Germany

13:15–14:00 Reflection and discussions together
Room 239

14:00–15:00 Lunch Break (restaurant "Fiorentino", Universiteto str. 4)

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Wednesday, September 15 (rooms 238 & 239)

Students work in two parallel groups

09:00–11:00 (two groups in parallel) Module O3 / O6

239 & 238

Module O3: **CT for pre-school (kindergarten) prospective teachers: specific features, approaches and practical solutions**

prof. dr. Ayşegül Bayraktar, Ankara University, Turkey
prof. dr. Yasemin Gülbahar, Ankara University, Turkey

Module O6: **CT for informatics (computing) prospective teachers: specific features, approaches and practical solutions**

prof. dr. Gerald Futschek, Vienna University of Technology, Austria
Martina Landman, University of Vienna, Austria

11:15–13.15 (two groups in parallel) Module O6 / O3 (two groups in parallel)

239 & 238

Module O6: **CT for informatics (computing) prospective teachers: specific features, approaches and practical solutions**

prof. dr. Gerald Futschek, Vienna University of Technology, Austria
Martina Landman, University of Vienna, Austria

Module O3: **CT for pre-school (kindergarten) prospective teachers: specific features, approaches and practical solutions**

prof. dr. Ayşegül Bayraktar, Ankara University, Turkey
prof. dr. Yasemin Gülbahar, Ankara University, Turkey

13:15–14:00 Reflection and discussions together

Room 239

prof. dr. Ayşegül Bayraktar, Ankara University, Turkey
prof. dr. Yasemin Gülbahar, Ankara University, Turkey
prof. dr. Gerald Futschek, Vienna University of Technology, Austria
Martina Landman, University of Vienna, Austria

14:00–15:00 Lunch Break (restaurant “Fiorentino”, Universiteto str. 4)

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Thursday, September 16 (rooms 238 & 239)

Students work in two parallel groups

09:00–11:00 (two groups in parallel) Module O4 / O5

239 & 238

Module O4: **CT for primary education prospective teachers: specific features, approaches and practical solutions**

prof. dr. Claudia Tenberge, University of Paderborn, Germany
Michael Lenke, University of Paderborn, Germany

Module O5: **CT for STEM prospective teachers: specific features, approaches and practical solutions**

prof. dr. Erik Barendsen, Radboud University, The Netherlands
prof. dr. Gerald Futschek, Vienna University of Technology, Austria

11:15–13:15 (two groups in parallel) Module O5 / O4 (two groups in parallel)

239 & 238

Module O5: **CT for STEM prospective teachers: specific features, approaches and practical solutions**

prof. dr. Erik Barendsen, Radboud University, The Netherlands
prof. dr. Gerald Futschek, Vienna University of Technology, Austria

Module O4: **CT for primary education prospective teachers: specific features, approaches and practical solutions**

prof. dr. Claudia Tenberge, University of Paderborn, Germany
Michael Lenke, University of Paderborn, Germany

13:15–14:00 Reflection and discussions

Room 239

14:00–15:00 Lunch Break (restaurant “Fiorentino”, Universiteto str. 4)

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Friday, September 17 (rooms 238 & 239)

Students work in two parallel groups

09:00–11:30 239 & 238
(two groups in parallel) Module O7: **CT for languages, arts and humanities prospective teachers: specific features, approaches and practical solutions**
prof. dr. Ayşegül Bayraktar, Ankara University, Turkey
prof. dr. Serkan Keleşoğlu, Ankara University, Turkey

11:30–12:00 239 & 238
Reflection and discussions

12:00–13:00 Room 239
Overview of the trainings, reflection and discussion on all modules.
prof. dr., Erik Barendsen, Radboud University, The Netherlands
prof. dr. Gerald Futschek, Vienna University of Technology, Austria
all partners

13:00–13:30 Room 239
Thanks to students, questionnaires, certificates
prof. dr. Valentina Dagienė, Vilnius University, Lithuania
all partners

14:00–15:00 Lunch Break (restaurant “Fiorentino”, Universiteto str. 4)

TeaEdu4CT Intellectual Outputs Piloting and Translation

https://drive.google.com/drive/folders/1yRX6jrKQaRM8Xr9tATuPVuIC1jylUH86?usp=sharing

ID	Output Title	Leading & Piloting	Translation/Piloting
IO1	**Framework for the support of the modules: CT&STEM for future teacher education**	**P1** – VU – Lithuania	P4 – ANKU - Turkey P5 – TLU - Estonia
IO2	**General Introduction of Computational Thinking: a basic module suitable for all teachers**	**P8** – RU– Netherlands	P1 – VU - Lithuania P3 – KTH - Sweden
IO3	**CT for pre-school (kindergarten) prospective teachers: specific features, approaches and practical solutions**	**P4** – ANKU – Turkey	P5 – TLU - Estonia P9 – UPB - Germany
IO4	**CT for primary education prospective teachers: specific features, approaches and practical solutions**	**P9** – UPB - Germany	P1 – VU - Lithuania P6 – CESIE – Italy P10 – CARDET - Cyprus
IO5	**CT for STEM prospective teachers: specific features, approaches and practical solutions**	**P8** – RU – Netherlands	P1 – VU - Lithuania P3 – KTH - Sweden
IO6	**CT for informatics (computing) prospective teachers: specific features, approaches and practical solutions**	**P7 –** TUW – Austria	P1 – VU - Lithuania P9 – UPB - Germany
IO7	**CT for languages, arts and humanities prospective teachers: specific features, approaches and practical solutions**	**P4** – ANKU – Turkey	P6 – CESIE - Italy P2 – UTU - Finland
IO8	**Educational environments for CT: design and aspects of integration**	**P2** – UTU – Finland	P1 – VU - Lithuania P5 – TLU - Estonia P10 – CARDET - Cyprus
IO9	**Using Constructivism, and Project and Challenge Driven Pedagogy for learning Computational Thinking**	**P3** – KTH – Sweden	P6 – CESIE - Italy P8 – RU - Netherlands
IO10	**Technological, pedagogical and instructional design aspects of teaching CT for STEAM**	**P5** – TLU – Estonia	P6 – CESIE – Italy P7 – TUW – Austria

Link for training material:
https://drive.google.com/drive/folders/1yRX6jrKQaRM8Xr9tATuPVuIC1jylUH86?usp=sharing

Turku University (UTU, Finland), KTH (Sweden), Ankara University (ANKU, Turkey), Tallinn University (TLU, Estonia), CESIE (Italy), Vienna University of Technology (TUW, Austria), Radboud University (RU, The Netherlands), Paderborn University (UPB, Germany), CARDET (Cyprus)