

## Digital STEAM

*Draft agenda for Euneos teacher training course in Tallinn*

### Course organizers:

**Mart Laanpere**, Ph.D. senior researcher in the Institute of Digital Technologies, Tallinn University (+372 5278 437, [mart.laanpere@tlu.ee](mailto:mart.laanpere@tlu.ee))

**James Sunney Quaicoe**, Ph.D. researcher in the Institute of Digital Technologies, Tallinn University ([paasanni@tlu.ee](mailto:paasanni@tlu.ee))

### Course venue:

Centre for Educational Technology, Rooms A-303, A-440

Address: Tallinn University, Astra building, [Narva Road 29](#), EE-10120 Tallinn

### SUNDAY

**Venue:** The lobby of [Park Inn Central Hotel](#) (Narva Rd. 7C),

**Contact:** James Sunney Quaicoe, +372 5550 9768, [paasanni@tlu.ee](mailto:paasanni@tlu.ee)

17:00-18:30 Welcome and introduction. Getting to know each other, expectations. Overview of the apps to be used next week. Questions and suggestions, individual guidance and support.

### MONDAY

**Venue:** Tallinn University (Room A-303)

**Contact:** Mart Laanpere, [mart.laanpere@tlu.ee](mailto:mart.laanpere@tlu.ee), mob. +372 5278 437

9:30 Gathering in the lobby of Terra building of the Tallinn University, address: Narva maantee 29 (close to stop "Tallinna Ülikool" of trams 1 & 3).

9:45 Introduction to the course, educational system in Estonia (Mart)

11:00 Coffee break

11.30 Introduction of participants. Presentations of schools by participating teachers, their best practice and future plans with tablets in the STEM classroom.

12:30 Lunch in the university cafeteria

13:30 Visualising innovative learning scenarios for BYOD classrooms (Mart)

15:00 Coffee break

15:30 Setting up a Personal Learning Environment (James Sunney Quaicoe)

17:00 Debriefing and reflecting

### TUESDAY

**Venue:** Tallinn University (Room A-440)

**Contact:** Mart Laanpere, [mart.laanpere@tlu.ee](mailto:mart.laanpere@tlu.ee), mob. +372 5278 437

9:30 Inquiry-based learning workshop with GlobiSense devices (Küllli Kori)

10:00 Coffee break

11:00 Workshop continues

12:00 Lunch at the university cafeteria

13:00 Tram to Energiakeskus, [Põhja pst. 29](#) ([energiakeskus.ee](http://energiakeskus.ee))

15:30 Guided tour in the science museum

15:45 Workshop: design a STEAM learning worksheet for museum

17:00 Debriefing and reflecting.

## **WEDNESDAY**

**Venue:** Tallinn 21 School and Gustav Adolf Gymnasium

**Contact:** James Sunney Quaicoe

9:50 Meeting in front of Tallinn 21 School (address: Rauda 6, <http://21k.ee/>)

10:00 Welcome and introduction by principal, guided tour

10:15 Visiting STEM lessons in primary and lower-secondary level

11:45 Roundtable discussion with the vice principal and teachers

12:15 Lunch at the Tallinn University cafeteria

12:45 Bus transfer to Gustav Adolf Grammar School, GAG ([www.gag.ee](http://www.gag.ee))

Kotzebue building

13:30 Guided tour in the school (pupils of GAG)

14:30 Coffee break

14:45 The use of ICT in STEM at GAG (Ingrid Maadvere)

15:30 Walking to the main building

15:45 Workshop: Tablets in chemistry lesson (Katrin Soika, chemistry teacher)

17:00 Debriefing and reflecting.

## **THURSDAY**

**Venue:** Tallinn University, Room A-303

**Contact:** James Sunney Quaicoe

9:30 Workshop on Learning Science with robots (Janika Leoste, PhD candidate, Tallinn University), Room A-440

12:30 Lunch at the university cafeteria

13:30 Workshop on Virtual Reality and Augmented reality in the classroom by Madis Vasser (PhD candidate, University of Tartu), at [FutuRuum](#) VR Arcade, seaside upper floor of Nautica Centre, address: Ahtri 9

16:30 Debriefing and reflecting

## **FRIDAY**

**Venue:** Tallinn University, Room A-440

**Contact:** James Sunney Quaicoe

9.30 Game-based environmental outdoor STEM education: designing and testing a location-based adventure game. (Mart Laanpere)

12:30 Lunch

13:30 Working on group projects

15:30 Final presentations of the group projects. (James Sunney Quaicoe)

17:00 Feedback of the course and evaluation. Handing over certificates.

## **SATURDAY**

**Meeting point:** In front of the medieval Old Town Hall

**Contact:** James Sunney Quaicoe

10:00 Guided tour in the medieval Old Town.

12:00 Guidance on preparing project proposals for follow-up activities

13:00 Closure.