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HELSINGIN YLIOPISTO
HELSINGFORS UNIVERSITET
UNIVERSITY OF HELSINKI

TRAIN THE TRAINERS WORKSHOP AND STEM COORDINATOR MEETING OF THE ERASMUS+ KA2 PROJECT

598367-EPP-1-2018-1-SE-EPPKA2-CBHE-IP

“INTEGRATED APPROACH TO STEM TEACHER TRAINING”, STEM

22-25 October 2019

University of Helsinki

Address: Exactum-building, Pietari Kalmin katu 5, Helsinki, Finland.

PROGRAMME

Working language is English

22 October, Tuesday

9:00 – 9:30	Registration of participants, Exactum-building – room B120
<i>Opening session</i>	
Chair: Topias Ikävalko, University of Helsinki, STEM Project Coordinator	
9:30 – 10:30	Welcoming words and backgrounds of STEM education in University of Helsinki, prof. Maija Aksela, University of Helsinki, Director of LUMA Centre Finland.
10:30 – 11:30	Presentation of the organizational structure and teacher education in STEM education, Topias Ikävalko
11:30 – 12:30	Lunch at Exactum-building, Unicafe restaurant
<i>Research and STEM education models</i>	
Chair: Topias Ikävalko, University of Helsinki, STEM Project Coordinator	
12:30 – 13:30	Design Based Research as a tool for development, Johannes Pernaa, University teacher, Chemistry Education Unit, University of Helsinki
13:30 – 14:15	STEM Center collaboration model, Oona Kiviluoto, Project manager, LUMA Centre Finland
14:15 – 14:45	Coffee Break
<i>Drama workshop</i>	
Chair: Topias Ikävalko, University of Helsinki, STEM Project Coordinator	
14:45 – 16:30	Drama tools in STEM Education, Jaakko Turkka, Researcher, Chemistry Education Unit, University of Helsinki
16:30	End of the day

23 October, Wednesday

09:00	Registration of participants, Metsätalo-building, Room 25, Address: Unioninkatu 40, Helsinki
<i>Makerspace workshop</i> Chair: Oona Kiviluoto, LUMA Centre Finland, University of Helsinki	
09:00 - 10:30	Makerspace learning, Sini Riikonen, Researcher, Faculty of Educational Sciences, University of Helsinki
10:30 - 11:30	Break and walk to Helsinki Normal Lyceum, Address: Ratakatu 6, Helsinki
<i>Visit at Helsinki Normal Lyceum</i> Chair: Topias Ikävalko, University of Helsinki, STEM Project Coordinator	
11:30 - 11:35	Welcome words in Teachers' Lounge, Ms Jaana Silvennoinen
11:35 - 12:50	Lesson observation, Ms Annina Rostila, room B311 and Ms Pipsa Blomgren, room B305
12:50 - 13:20	School lunch at School Cafeteria
13:30 - 14:45	The role of practical activities in science education, Ms Tiina Ranta-aho, room A107
14:45 - 15:00	Coffee Break
15:00 - 15:30	Presentation of Helsinki Normal Lyceum, Ms Jaana Silvennoinen
15:30 - 16:00	Break and walk to Porthania, Room P219, Address: Yliopistonkatu 3, Helsinki
<i>Reflections and discussion</i> Chair: Topias Ikävalko, University of Helsinki, STEM Project Coordinator	
16:00 - 17:00	Reflections on lessons learned at Helsinki Normal Lyceum
17:00	End of the day

24 October, Thursday

09:00	Registration of participants, Chemicum-building, Address: A.I. Virtasen aukio 1, Helsinki
<i>Hands-on activities and visit to ChemistryLab Gadolin</i> Chair: Oona Kiviluoto, LUMA Centre Finland, University of Helsinki	
09:00 - 10:00	Hands-on activities in ChemistryLab Gadolin, Iisa Rautiainen, Science Education Coordinator, Science Education Centre, LUMA Centre Finland
<i>Presentations of EU Partners</i> Exactum-building, Room D123, Pietari Kalmin katu 5, Helsinki Chair: Topias Ikävalko, University of Helsinki, STEM Project Coordinator	
10:00 - 10:45	Presentation by Keelin Leahy, University of Limerick, Ireland
10:45 - 11:30	Presentation by Gultekin Cakmakci, Hacettepe University, Turkey
11:30 - 12:30	Lunch at Exactum-building, Unicafe restaurant
<i>Workshops on mathematics and climate education</i> Chair: Topias Ikävalko, University of Helsinki, STEM Project Coordinator	

12:30 – 13:15	Hands-on activities about mathematics, Iikka Talvala, Science Education Coordinator, Science Education Centre, LUMA Centre Finland
13:15 – 14:00	Thinking and teaching climate systems, Tapio Rasa, Science Education Coordinator, Science Education Centre, LUMA Centre Finland
14:00 – 14:30	Coffee Break
<i>Conclusions and discussion</i>	
Chair: Topias Ikävalko, University of Helsinki, STEM Project Coordinator	
14:30 – 16:00	Reflection and planning of STEM Centers
16:00	Closing remarks for Train the Trainers Workshop and farewell

25 October, Friday, Coordinator meeting

09:00	Registration of participants, Exactum-building, Room D123, Pietari Kalmin katu 5, Helsinki
<i>Work plan for 2019-2020</i>	
Chair: Janerik Lundquist, Linköping University, STEM Project Coordinator	
09:00 – 10:00	Report on the Monitoring visit to Kazakhstan
10:00 – 11:00	STEM Master's programmes, STEM centres and Summer schools.
11:00 – 12:00	<ul style="list-style-type: none"> • Training workshops for teachers from PC • Training of STEM ambassadors • Quality Assurance
12:00 – 13:00	Lunch at Exactum-building, Unicafe restaurant
<i>Plans and strategies</i>	
Chair: Janerik Lundquist, Linköping University, STEM Project Coordinator	
13:00 – 14:00	Equipment
14:00 – 15:00	<ul style="list-style-type: none"> • Project web site, One Drive and news form partners • Dissemination events and instruments • STEM days, STEM weeks, STEM festivals
15:00 – 15:15	Coffee Break
<i>Plans and strategies continues</i>	
Chair: Janerik Lundquist, Linköping University, STEM Project Coordinator	
15:15 – 16:00	Financial issues
16:00 – 16:30	Inter-project coaching. Conclusions from Maxim Bondarev's visit to Istanbul
16:30 – 17:00	Teamwork among PC participants.
17:00	Closing remarks for Coordinator meeting and farewell