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## ICT4EDU: Enhancing ICT Competencies of Early Childhood Educators at HEIs in MENA Countries - ToT

ERASMUS+ PROGRAMME | Project Number: 101083078

### Report on the ToT for Academics and Technicians at PTUK

<b>Event type</b>	Training Workshop at EU partners' HEIs for Teachers, Researchers, and Technicians
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<b>Organisation name(s)</b>	Palestine Technical University-Kadoorie
<b>WP Number</b>	4th
<b>WP Leader</b>	University of Bucharest
<b>Date</b>	19 <sup>th</sup> of March, 2025



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## **1. Introduction**

This document provides a detailed overview of the Training of Trainers (ToT) event, offering a comprehensive summary of the key aspects of the session. It includes the full agenda, highlights of the main topics covered, and a complete list of participants who took part in the workshop. Additionally, this document features a collection of photos capturing important moments throughout the event. To enhance accessibility and promote ongoing learning, we have provided links to the prepared presentations and the recorded Zoom session, allowing participants and other stakeholders to revisit the materials and benefit from the insights shared during the training.

The event was conducted via zoom and face to face for ToT based on Frederick University, Nicosia, Workshop and based on University of Bucharest workshop.

## **2. ToT Event Description**

### **2.1. Agenda**

**Part I: Based on Frederick University, Nicosia, Cyprus**

**Day 1 (Saturday, 16<sup>th</sup> November 2024): Introduction to ICT and Sustainability in Early Childhood Education Led by Prof. Dr. Vassilios Makrakis and Dr. Nikos Larios**

1. 9:30-10:30—Welcoming and Icebreaker session: This activity will introduce participants and share their experiences (Moderated by Vassilios Makrakis).
2. 10:30-11:00- Presentation: Provide an overview of the workshop objectives and the significance of integrating ICTs in early childhood education, focusing on sustainability (Vassilios Makrakis).
3. 11:00-12:00- Presentation (Online): ICTs and Educational Robotics in Early Childhood Teaching and Learning (Nikos Larios).
4. 12:00-13:00- Group Discussion: Discuss how ICTs can promote sustainable behaviors in everyday life and integrate them into the teaching and learning curriculum (Moderated by Nikos Larios and Vassilios Makrakis).
5. 13:00-14:30- Lunch
6. 14:30-15:30- Activity: Participants brainstorm and search the Web for digital resources (e.g., educational robotics, simulations, educational games, digital storytelling, creative writing, reading books, etc.) and resources (learning objects) that can be used in their teaching, focusing on sustainability issues. They also identify where ICTs can enhance such practices (Moderated by Vassilios Makrakis).
7. 15:30-16:00- Discussion

**Day 2 (Sunday, 17<sup>th</sup> November 2024): Engaging Families and the Community Applying ICTs in Educational Robotics Led by Prof. Dr. Vassilios Makrakis**

1. 9:30-10:00- Presentation: Introduce community-based learning underpinning intergenerational learning, the role of families in sustainability education, and how to engage them using ICT tools (Vassilios Makrakis).
2. 10:00-11:00—An example: ICT tools supporting ECE intergenerational learning infused with sustainability issues elicited from SDGs (Vassilios Makrakis).
3. 11:00-12:00- Activity: Brainstorming session on intergenerational civic engagement strategies using ICTs in Education for Sustainability (Moderated by Vassilios Makrakis).
4. 12:00-13:00- Group Activity: Design a community-based learning sustainability project involving students and families using digital technologies to merge

education with digital education (Moderated by Vassilios Makrakis).

5. 13:00-14:30- Lunch
6. 14:30-16:00- Continuing Group Activity
7. 16:00-17:00- Presentations

**Day 3 (Monday, 18<sup>th</sup> November 2024): Tools and Resources Suitable to Education for Sustainability Led by Prof. Dr. Nikleia Eteokleus and her Team**

1. 9:30-10:30- Presentation: Using Digital Tools for Developing Teaching Materials  
This presentation will focus on digital tools and resources supporting teaching practices.
2. 10:30-11:30- Hands-on Activity: Participants will follow up on their web search for suitable tools and resources. They will choose suitable tools for ECE to promote sustainability education, particularly emphasizing educational robotics and gamification.
3. 11:30-13:00- Group Activity: Participants are divided into groups to assess the chosen tools identified based on a rubric.
4. 13:00-14:30- Lunch
5. 14:30- 15:30- Collaborative Workshop: Participants share and discuss the results of their evaluation and develop a resource list of potential ICT tools for teaching sustainability.

**Day 3 (Tuesday, 19<sup>th</sup> November 2024): Designing Engaging and Sustainable Lesson Plans Led by Prof. Dr. Nikleia Eteokleus and her Team**

1. 9:30-11:00—Workshop: Participants learn to create lesson plans incorporating ICT tools from the list with sustainability themes that could be elicited from the lesson plans.
2. 11:00-13:00- Group Activity: In small groups, participants design a lesson plan that integrates an ICT tool with a sustainability concept (e.g., recycling, conservation, child labor).
3. 13:00-14:30- Lunch
4. 14:30-16:00- Peer Review Activity: Groups present their lesson plans and provide constructive feedback to one another.
5. 16:00-17:00- Discussion: Strategies for assessing student understanding and engagement in contextualizing ICTs with sustainability education through lesson plans.



**Day 5 (Wednesday, 20<sup>th</sup> November 2024): Reflection, Assessment, and Future Trends Lec**  
**Prof. Dr. Vassilios Makrakis**

1. 9:30-10:30- Reflective Activity: Participants discuss what they learned during the workshop and how they plan to implement these ideas in their teaching.
2. 10:30-11:00- Closing remarks and feedback sessions to evaluate the workshop's effectiveness.
3. 11:00-11:30- Delivering a questionnaire for assessing the training workshop.
4. Distribution of certificates.
5. Field Trip

**Agenda Part II: Based on Bucharest workshop**

**09:00-09:30 Registration & coffee**

**9:30 – 10:00 Welcome speech from the University of Bucharest and Faculty of Psychology and Educational Sciences representatives**

**10:00-10:30 Workshop Introduction: Objectives, expectations, and overview.**

**10:30-13:30 Unlocking Diverse Intelligences: Integrating Multiple Intelligences Theory in Modern Teaching Practices**

- Introduction to the Theory of Multiple Intelligences: the background and development of Gardner's theory, along with an overview of each type of intelligence.
- Identifying Intelligences in Practice: how teachers can recognize and leverage multiple intelligences within their classrooms.
- Personalized Teaching Strategies and Techniques: exploring strategies that encourage all types of intelligence, including examples of activities and exercises.
- Case Studies and Group Discussions: applying the theory through case studies and group discussions.
- Lesson Planning Based on Multiple Intelligences: creating lessons that integrate activities specific to each type of intelligence.

**13:30-15:00 – Lunch**

**15:00 -16:00- History of the University of Bucharest. Learn about the founders and academic life throughout the ages.**

**16:00-17:00 Recording course units using green screen.**

**Day 2 (28.01): New pedagogical approaches and educational technologies**  
**Rectorate building, C.A. Room, 1st floor**

**09:00-09:30 - Registration**

**9:30 – 10:10 - CIVIS Alliances presentation**

**10:10 – 10:30 - Coffee break**

**10:30 - 12:30 - Instructional design for creating online courses**

**12:30 - 13:30 - Developing Computational Thinking in preschool and primary education**

- Computational thinking and its relevance in education.
- Previous experiences in Computational Thinking
- Computational thinking in practice
- Sharing experiences and best practices on CT

**13:30 – 14:30 - Lunch**

**14:30 - 15:30 Developing Computational Thinking and off screen devices. Examples in practice**

**15:30 - 17:00 Facilitating learner's digital competences. Examples from primary school**

**17:00 – 17:15 Wrap-up and outline of key takeaways.**

**Day 3 (29.01): Visit to Partner Primary school and kindergarten**  
**Ion Vișoiu School, Chitila, Ilfov**

**09:00**

- Tour of the primary school environment, focusing on digital resources and classroom setups.
- Observe a lesson where ICT tools are part of the instructional process.
- Discussion with primary school teachers on their approach to technology in teaching and the impact on student outcomes.

**Group Debrief and Takeaways**

- Group discussion to share observations and reflections.

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- Discussion with primary school teachers on their approach to technology in teaching and the impact on student outcomes.

**Group Debrief and Takeaways**

- Group discussion to share observations and reflections.
- Facilitated activity to connect field observations to workshop themes, such as ICT's role in fostering active learning and SEL.
- Wrap-up and outline of key takeaways.



#### **Day 4 (30.01): AR & VR in education. Building and running learning experiences**

**Rectorate premises EDIS Innovative Labs, Room 2**

##### **Day 4: Immersive technology in education (1)**

###### **Virtual Reality in Education**

**09:00-09:30 - Registration & coffee**

**09:30 - 10:30 Moodle grading system for elearning courses**

**10:30 – 11:00 Introduction to VR and AR. Implications for teaching and learning.**

**11:00 – 11:30 Workshop on VR editors**

- Familiarization with the CoSpaces creation interface
- Familiarization with the functions of CoSpaces virtual classes
- Developing skills in 3D object manipulation
- Using the CoSpaces library and external resources (Sketchfab)
- Creating simple themed scenes
- Introduction to block-based visual coding
- Applying interactions in the themed scene

**11:30 – 12:30 Exploring scenes in virtual reality (VR). Examples from the field**

**12:30 - 13:30 Lunch**

**14:00 - 15:00 Moodle grading system for eLearning courses (2)**

**15:00 -16:30 Educational resources to enhance learning experience (1)**

- Augmented reality and interactive projections
- Creating interactive learning resources

**16:30 – 17:00 Review and Reflect: Sharing VR integration plans and feedback.**

#### **Day 5 (31.01): Integration and Assessment**

**Faculty of Psychology and Educational Sciences, Amf. Stoian**

**09:30**

Recap: Key learnings from the week.

Group Workshop: Integrating advanced ICT tools into a cohesive lesson plan.

Peer Feedback: Reviewing and refining lesson plans.

Presentation: Sharing final lesson plans and implementation strategies.

Panel Discussion: Future of ICT in education and continuous improvement.

Closing Remarks: Workshop wrap-up, certificates, and next steps.

## 2.2. Syllabus and Training Material

The workshop focused on enhancing ICT competencies for educators by integrating innovative teaching strategies and digital tools. A key discussion was Multiple Intelligences Theory, emphasizing diverse learning styles and personalized teaching methods. Computational Thinking was also explored, introducing problem-solving skills such as decomposition, pattern recognition, and algorithmic thinking to enhance student learning.

Participants engaged with interactive digital tools like Wordwall and Flippity, which allow educators to create customized quizzes, flashcards, and games to make lessons more engaging. Additionally, CoSpaces provided hands-on experience in building virtual reality (VR) environments, while Sketchfab enabled visualization of 3D models, particularly useful in subjects like anatomy and engineering. These tools, combined with innovative pedagogical approaches, empower educators to create interactive and immersive learning experiences, fostering student engagement and deeper understanding.

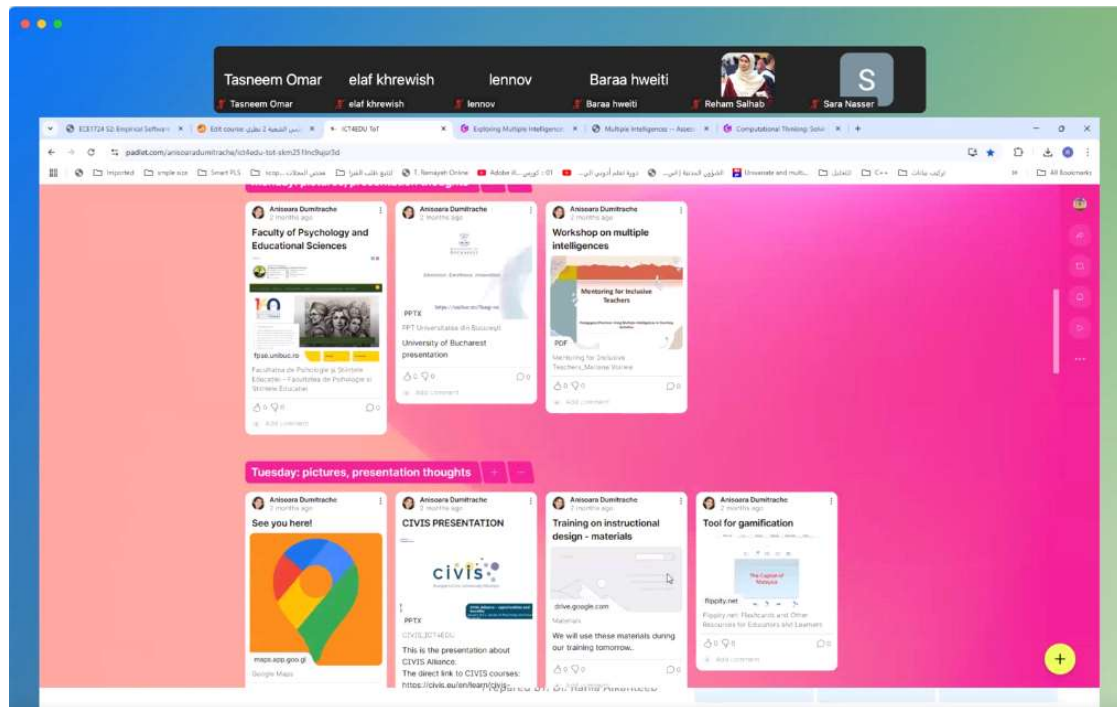
## 2.3. List of Participants

A total of 28 participants joined the sessions via the online platform. The following table shows the names and details of registered participants



Name	Contact (e-mail)	Institution/ department/ Role
• Mohammad Jazzar	<a href="mailto:m.jazzar@ptuk.edu.ps">m.jazzar@ptuk.edu.ps</a>	PTUK/ Lecturer – Academic Staff
• Rania Alkhateeb	<a href="mailto:r.alkhateeb@ptuk.edu.ps">r.alkhateeb@ptuk.edu.ps</a>	PTUK/ Lecturer – Academic Staff
• Montaser Motia Ujvari	<a href="mailto:Montaser.owda@ptuk.ed.ps">Montaser.owda@ptuk.ed.ps</a>	PTUK/ Lecturer – Academic Staff
• Nadia Hamad	<a href="mailto:n.hamad@ptuk.edu.ps">n.hamad@ptuk.edu.ps</a>	PTUK/ Lecturer – Academic Staff
• Sherin Hijazi	<a href="mailto:s.hijazi@ptuk.edu.ps">s.hijazi@ptuk.edu.ps</a>	PTUK/ Lecturer – Academic Staff
• Reham Salhab	<a href="mailto:r.salhab@ptuk.edu.ps">r.salhab@ptuk.edu.ps</a>	PTUK/ Lecturer – Academic Staff
• Alla Yaquoub		PTUK/Technician–Administrative Staff

• Nashat Jallad	<a href="mailto:n.jallad@ptuk.edu.ps">n.jallad@ptuk.edu.ps</a>	PTUK/Technician–Administrative Staff
• Jafar Abu Saa	<a href="mailto:j.abusaa@ptuk.edu.ps">j.abusaa@ptuk.edu.ps</a>	PTUK/ Lecturer – Academic Staff
• Maan Alkhateeb	<a href="mailto:m.khateeb@ptuk.edu.ps">m.khateeb@ptuk.edu.ps</a>	PTUK/Technician–Administrative Staff
• Alaa Hantoli	<a href="mailto:a.hantoli@ptuk.edu.ps">a.hantoli@ptuk.edu.ps</a>	PTUK/ Lecturer – Academic Staff
• Nora Hamad	<a href="mailto:n.hamad@ptuk.edu.ps">n.hamad@ptuk.edu.ps</a>	PTUK/ Lecturer – Academic Staff
• Montaser Motia Ujvari	<a href="mailto:Montaser.owda@ptuk.ed.ps">Montaser.owda@ptuk.ed.ps</a>	PTUK/ Lecturer – Academic Staff
• Nawaf Abu-Khalaf	<a href="mailto:n.abukhalaf@ptuk.edu.ps">n.abukhalaf@ptuk.edu.ps</a>	PTUK/ Lecturer – Academic Staff
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• Alaa Hantooli	<a href="mailto:alaa.hantoli@yahoo.com">alaa.hantoli@yahoo.com</a>	PTUK/ Lecturer – Academic Staff
• Intisar Salman	<a href="mailto:i.salman@ptuk.edu.ps">i.salman@ptuk.edu.ps</a>	PTUK/ Lecturer – Academic Staff
• Samah Jarrad	<a href="mailto:n.abukhalaf@ptuk.edu.ps">n.abukhalaf@ptuk.edu.ps</a>	PTUK/ Lecturer – Academic Staff
• Jaffar Abu-Saa	<a href="mailto:j.abusaa@ptuk.edu.ps">j.abusaa@ptuk.edu.ps</a>	PTUK/ Lecturer – Academic Staff
• Yasmin Abu-Hasira	<a href="mailto:y.abuhasirah@ptuk.edu.ps">y.abuhasirah@ptuk.edu.ps</a>	PTUK/Technician–Admenestrative Staff
• Haneen Mabrook		
• Tasneem Omar		
• Elaf Khrewish		
• Baraa Hwiti		
• Sara Nasser		
• Maisam Staiti		
• Ali Amjad		








 Tasneem Omar
 Baraa hweiti
 Ali Amjad
 Noura
 

For the presentation - PowerPoint

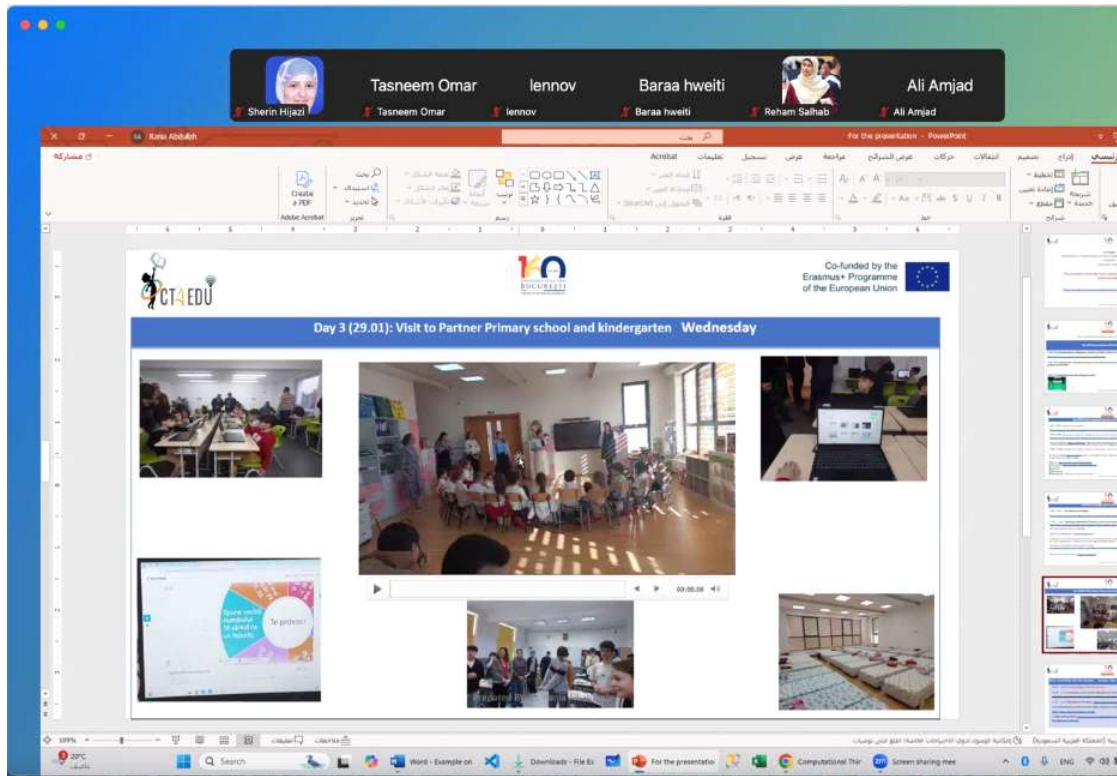
Day 4 + Day 5 (30.01): AR & VR in education.  
 Thursday + Friday

A mobile application was introduced:  
 Merge Edu or Object viewer.  
 In this app, you can view objects in 3D modes.  
 An illustration is provided in the video

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You can download it from:  
<https://www.merge-edu.com/content/uploads/cube.pdf?merge=/paper/2021/04>

Prepared BY: Dr. Rania Hassan



## 2.4. Dissemination

A formal invitation was disseminated via the Human Resources Management (HRM) system one week prior to the scheduled meeting date. The invitation was addressed to all academic staff, administrative personnel, and technicians from both the College of Information Technology and the College of Arts and Educational Sciences. The purpose of this communication was to ensure broad participation and engagement by informing recipients about the workshop's objectives, agenda, and relevance to their roles. By providing ample notice, the email aimed to facilitate scheduling adjustments and encourage active involvement from diverse faculty and staff members, fostering a collaborative and well-prepared learning environment.







### 3. Conclusion

This document provides a comprehensive overview of the Training of Trainers (ToT) event, including the detailed agenda, a summary of key topics covered, a complete list of participants, and a collection of photos capturing key moments from the workshop. To further support knowledge sharing and accessibility, the following links contain the prepared presentations and the recorded Zoom session, ensuring that attendees and other stakeholders can revisit the materials and benefit from the insights shared during the training.

[https://zoom.us/rec/share/5SLWZrmS917wjWVg940M0FwobdzNbJAursJJilH1leTuVKY0RyQ6P8PPp95REnWX.0U1Fjx\\_f9N\\_x6YIS](https://zoom.us/rec/share/5SLWZrmS917wjWVg940M0FwobdzNbJAursJJilH1leTuVKY0RyQ6P8PPp95REnWX.0U1Fjx_f9N_x6YIS)

<https://docs.google.com/presentation/d/1IEfqIBT2uASoVJywqZV0TjElkdmoGt-b/edit?usp=sharing&oid=106584150550746910061&rtpof=true&sd=true>