

# International Workshop on Metaverse, XR and Immersive Learning Environments (META-EDU 2026)

## Workshop Overview

META-EDU 2026 explores the transformative roles of Metaverse technologies, Extended Reality (XR), Virtual Reality (VR), Mixed Reality (MR), and immersive learning ecosystems. The workshop brings together researchers, developers, educators, and instructional designers to discuss cutting-edge immersive pedagogies, digital learning spaces, and the future of human–technology interaction in education.

## Workshop Tracks

### Track 1 – Metaverse-Driven Learning Ecosystems

- Virtual learning worlds and immersive classrooms
- Avatar-based communication and collaboration
- Digital twins and simulation-based learning

### Track 2 – XR Technologies in Education

- VR/AR/MR applications in STEM, medicine, and social sciences
- Hands-on laboratories with virtual and augmented tools
- XR accessibility, safety, and usability frameworks

### Track 3 – Instructional Design for Immersive Learning

- Immersive pedagogy and multi-sensory learning design
- Scenario-based simulation development
- Evidence-based effectiveness of XR learning environments

### Track 4 – E-Learning, Gamification, and Digital Innovation

- Gamified learning models and serious games
- AI-driven adaptive systems integrated with immersive media
- Online learning innovations and hybrid XR classrooms

### Track 5 – Teacher Training and Capacity Building

- Preparing educators for XR-enhanced teaching
- Professional development using simulated environments
- Teacher competencies for immersive digital learning

## **Additional Information**

This workshop supports interdisciplinary collaboration between educators, computer scientists, XR developers, psychologists, and policy makers. META-EDU 2026 encourages participants to propose demo sessions, hands-on XR activities, student engagement showcases, or collaborative international projects on immersive learning technologies. Invited speakers may also propose sub-workshops or future XR education initiatives aligned with global digital transformation strategies. Optional collaboration agreements (MoI) may be signed during the congress.

For further information regarding this workshop or contribution opportunities, please contact: SCITEED 2026 Secretariat Email: [reg@sciteed.org](mailto:reg@sciteed.org) Website: [www.sciteed.org](http://www.sciteed.org)