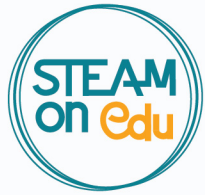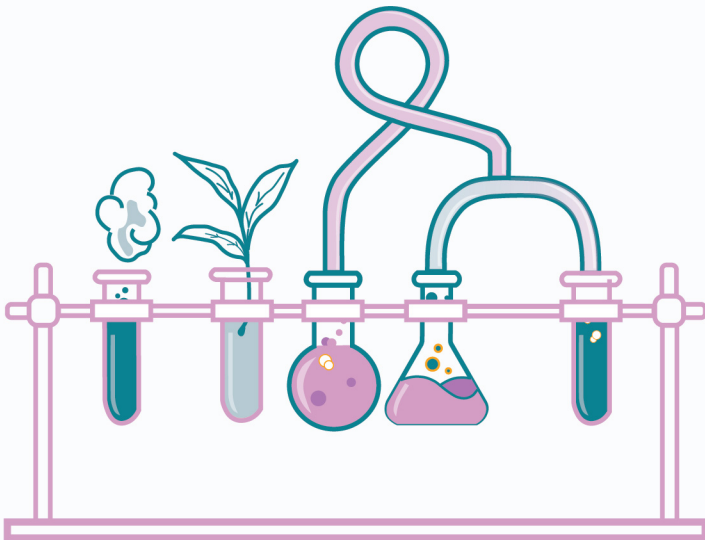# STE(A)M education for educators: "Design, orchestration, and implementation of STE(A)M education"

MOOC and Blended learning course

A two-phase training programme on STE(A)M education comprising a six-week massive open online course (MOOC) and a two-week blended learning course

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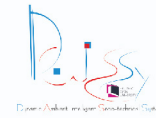
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Helliwood, 21st Century Competence Centre
🌐 helliwood.com
📍 Germany

Educating for an Open Society Romania Foundation
🌐 eos.ro
📍 Romania

The MOOC

The course supports the professional development of educators and managers/directors at all levels of education and guides them in becoming STE(A)M education tutors, designers, and orchestrators. It addresses their need to understand, adapt, apply, and create modern STE(A)M educational procedures and practices that enhance the effectiveness and acceptance of short- and long-term educational processes.

What you will learn

The participants will gain knowledge and develop competences in the following areas:

- Modern approaches of STE(A)M education
- Design and implementation of STE(A)M educational activities
- Content creation for STE(A)M education
- STE(A)M educational procedure and resource management
- Community building, participation, and interaction
- Policies in the context of STE(A)M education
- Competence frameworks and lifelong learning opportunities.

Who the course is for

The course is addressed to all individuals who are interested in applying or finding out about STE(A)M education, such as: (a) active educators at all levels and settings of formal and non-formal education, (b) managers/directors at all levels of formal and non-formal education, (c) students or graduates.
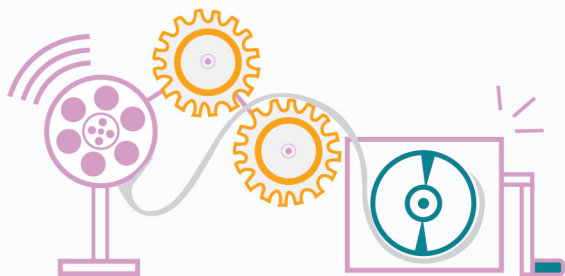
Course contents

Week 1: Educator as teacher-trainer-tutor

- The STE(A)M education approach
- Teaching and learning techniques that promote STE(A)M education
- Content and tools for STE(A)M education

Week 2: Educator as learning designer and creator

- STE(A)M-related educational activities design
- STE(A)M-related course design
- Content creation for STE(A)M education

Weeks 3 and 4: Educator as orchestrator and manager

- Teaching organization methods for STE(A)M education
- Classroom management methods for STE(A)M education
- Educational resources management methods for STE(A)M education
- Lab management methods for STE(A)M education
- Human resource management methods for STE(A)M education

Week 5: Educator as community member

- STE(A)M communities of educators
- Research and business communities for STE(A)M education
- Policies that promote STE(A)M education approach

Week 6: Educator as professional

- Research activities in STE(A)M education
- Lifelong learning related to STE(A)M educational approach
- Digital skills, frameworks, and tools for STE(A)M educators
- Transferable skills for STE(A)M educators

The blended learning course

It delves deeper into the topics addressed in MOOC and offers:

- Knowledge and experience exchange in the context of the STEAMonEdu community
- Delving into STE(A)M curricula design and development
- Cooperative activities towards the design of STE(A)M activity templates
- Understanding the STE(A)M competence framework and educator profiles and using them towards the promotion of new educational policies