Developing 21st Century Skills Using PBL, AI, and Apps

GENERAL INFORMATION

Trainer: Orsolya Carrick

Number of participants: 5-25 people
Language: English

Highlights:

The course "Developing 21st Century Skills Using PBL, AI, and Apps" aims to equip educators with comprehensive knowledge and practical skills to meet modern educational challenges. The program places particular emphasis on how to integrate Project-Based Learning (PBL), Artificial Intelligence (AI), and various digital applications into education, focusing on developing 21st-century skills such as critical thinking, creativity, collaboration, and communication. The training includes interactive elements, case studies, and hands-on workshops, enabling participants to apply newly acquired knowledge and skills immediately.

COURSE CONTENT

Description:

During the course, participants will become familiar with the principles and practical applications of Project-Based Learning (PBL) and how to integrate these into the development of 21st-century skills. The course will emphasize tools and applications that aid in project management, communication, and collaboration, such as Trello, Asana, and Slack. The program also introduces the basics of artificial intelligence (AI) in education, addressing ethical issues and how AI can be used to support individualized learning. Participants will take an active role in lesson and project planning, using digital tools, and applying AI in real educational settings.

Aims and objectives:

Course Objective: The primary objective of the course is to prepare educators to teach 21st-century skills effectively through the use of Project-Based Learning (PBL), artificial intelligence (AI), and digital applications. Additionally, the program aims to enable participants to integrate these tools and methodologies into their teaching practice and adapt them to the needs of various subjects and educational levels.

Goals:
- **Acquiring Basic Knowledge:** Participants will learn the fundamental principles and practical applications of PBL, AI, and apps.
- **Skill Development:** Educators will learn how to use PBL and AI to develop critical thinking, problem-solving, creativity, collaboration, and communication skills.
- **Use of Tools and Applications:** Participants will be able to select and apply the most appropriate digital tools and apps for managing their PBL projects.
- **Ethical and Pedagogical Considerations:** The course will provide participants with knowledge of the ethical and pedagogical challenges related to AI and methods to address them.
- **Practical Application:** Educators will gain practical experience that enables them to immediately apply newly acquired knowledge and skills in their own classrooms.

Learning outcomes:

1. **Application of PBL:** Participants will be able to design and implement Project-Based Learning curricula that foster active learning and the development of 21st-century skills.
2. **Use of Technological Tools:** Participants will learn to effectively use digital tools and applications that support PBL and promote individualized learning. 3.Understanding of AI Fundamentals: Educators will acquire basic knowledge of how AI works and how to apply this knowledge in educational practice.
4. **Critical Thinking and Problem-Solving:** Participants will learn to use PBL and AI methods to develop students' critical thinking and problem-solving skills.
5. **Collaboration and Communication:** Educators will be able to encourage classroom collaboration and communication through digital tools and PBL strategies.
6. **Ethical Sensitivity:** Participants will understand the ethical and societal impacts of using AI and digital technologies in education.
7. **Innovation and Creativity:** Educators will develop and introduce innovative teaching methods and projects that support creativity and individual growth.
8. **Self-Evaluation and Reflection:** Participants will be able to evaluate the effectiveness of their teaching methods and adapt them for continuous improvement.
9. **Continuous Development:** Educators will acquire the tools and resources necessary for ongoing professional development, including access to online materials and communities.

Schedule*

MONDAY	Fundamentals of PBL and 21st-century skills – Understanding the essence of project-based learning and its importance in the modern world, with an introduction to the 21st-century skills it can develop.
TUESDAY	Project Toolkit – What projects to choose, the seven essential elements of project structure, and what technological tools and media to use in PBL education.
WEDNESDAY	Lesson Planning and Teamwork – Developing a PBL lesson plan, understanding the importance of teamwork, and how to structure and maintain it.
THURSDAY	Presentation and Evaluation – Finalizing and presenting the lesson plan, with discussions on the importance of presentation skills and feedback.
FRIDAY	Summary and Problem Solving – Evaluating the course and participant feedback, discussing the challenges and problems encountered in PBL, and introducing AI and apps that can assist in the PBL methodology.

* Notes:
• the schedule describes likely activities but may be modified in accordance with the requests and needs of the participants;
• presentations of the participants' schools may be divided up and take place after the breaks on each day of the course.

Target group:

Teachers of all subjects and age groups who wish to deepen their knowledge of Project-Based Learning, 21st-century skill development, and the use of artificial intelligence in education.

Required language level of the participants: English, B2

Duration: 25 lessons, 5 days

ADDITIONAL INFORMATION

Certificates awarded:
Certificate of Attendance, Europass certificate and/or Learning agreement complement
Price: EUR   including course, Erasmus+ documentation and a cultural activity
Location:
Date: