



Integrating AI in the Classroom With Critical Thinking

By Maryam Farahmand

Course details

- 🕒 One week course
- € Starting from 480€ (Cultural activities included)*
- 👥 Min. 4 - max. 14 participants
- 📄 Certificate of attendance included (80% of attendance required)
- 📍 Available in Amsterdam, Barcelona, Budapest, Dublin, and Vienna

* A 60 € late registration fee will be applied if you register less than 8 weeks before the course start date.

Course description

As AIs continue to appear on the web and multiply their areas of expertise, it's likely that students will encounter them more often in the future. It is very likely that we will all need to deal with the growing relevance of AI in many aspects of our lives, including future careers.

The situation certainly leaves us with many doubts about the future. These questions are likely relevant for teachers:

- What is my role in an AI-driven world?
- Can I use AI to improve student learning and well-being?
- How can I use AI to identify students who are struggling sooner and provide targeted support for them?
- Am I able to create more intelligent tutoring systems?
- How can I automate routine tasks such as grading with AI?

The course will explore how AIs can be used to answer these questions. It will help participants stay up to the minute with the latest technology trends and prepare their students for the future.

The course is designed for teachers of different subjects (e.g., STEAM, language, social science, and history) who want to incorporate artificial intelligence tools in their teaching methodologies.

Participants will learn how to leverage AI tools to create dynamic learning experiences that help students explore complex issues.



The course will be delivered through a combination of direct instruction, hands-on activities, and group discussions. Teachers will have the opportunity to explore AI-powered tools and resources and develop lesson plans integrating AI into their teaching practices.

Moreover, on each day, participants have a “discussion of the day” enabling them to put their knowledge into practice, share their ideas, and possibly develop collaborative projects among their schools.

By the end of the week, teachers will have a deep understanding of AI and how AI can be used to upgrade different subjects and will be equipped with the tools to create engaging and innovative AI-infused lessons for their students.

Learning outcomes

Participants in the course will learn to:

- Acquire a solid understanding of emerging trends and technologies in AI for K-12 education;
- Develop lesson plans integrating AI in K-12 classroom
- Explore how AI can be used to promote critical thinking, creativity, and collaboration
- Assess student learning with AI.

Tentative schedule

Day 1 – Course introduction

- Introduction to the course, the school, and the external week activities;
- Icebreaker activities;
- Understanding what AI is and how it works;
- AI in education: opportunities and challenges;
- The impact of AI on the industry (healthcare, finance, education, agriculture, transportation).

Discussion of the day

- How can AI be integrated into different subjects in K-12 education?

Day 2 – AI in mathematics and science

- Introduction to AI tools for Mathematics and Science;
- Using AI for problem-solving, critical thinking, and data analysis;





- Ways that AI can be used in engineering and design projects.

Discussion of the day

- Sharing best practices for implementing AI in the STEAM classroom and evaluating its impact on student learning.

Day 3 – AI in language and literature

- Make sense of AI, its types, and its application in language learning;
- Can AI empower Positive Reinforcement learning tools and help deeper learning?
- Use of AI in writing prompts, grammar checking, and essay evaluation.

Discussion of the day

- How to use AI for writing feedback and suggestions.

Day 4 – AI in social studies and art

- Introduction to digital citizenship and responsible use of AI;
- The role of digital literacy in Social Studies and Humanities;
- How AI is used in creating art (examples of AI in music and visual arts).

Discussion of the day

- Evaluating examples of AI-generated art and text using thinking routines.

Day 5 – AI tools for classroom use

- Using Squirrel AI or Teachable Machine to create a lesson plan for a topic of their choice;
- Designing a curriculum that incorporates AI;
- Integrating AI into existing curriculum.

Discussion of the day

- Final thoughts and reflections on integrating AI into K-12 education.

Day 6 – Course closure & cultural activities

- Course evaluation: round-up of acquired competencies, feedback, and discussion;
- Awarding of the course Certificate of Attendance;
- Excursion and other external cultural activities.





*The schedule describes likely activities but may differ significantly based on the requests of the participants, and the trainer delivering the specific session. Course modifications are subject to the trainer's discretion. If you would like to discuss a specific topic, please indicate it at least 4 weeks in advance.

Our courses usually include two cultural activities. Further information is available on the webpage of each course location.

About the provider

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