ΑΝΑΛΥΤΙΚΗ ΠΡΟΔΙΑΓΡΑΦΗ ΠΡΟΓΡΑΜΜΑΤΟΣ ΚΑΤΑΡΤΙΣΗΣ

1. Τίτλος προγράμματος κατάρτισης:

Generative AI for Student Tutoring

2. Σύνδεση με Πρότυπα Επαγγελματικών Προσόντων:

Δεν εφαρμόζεται

3. Διάρκεια κατάρτισης (ώρες): 18

4. Ανάγκη κατάρτισης:

The integration of generative AI into education provides opportunities for creating personalized and adaptive learning environments. Educators, parents, and tutors require training to utilize AI tools for tasks such as lesson planning, content generation, and student feedback, addressing the need for individualized learning experiences. This training program helps participants understand the benefits, challenges, and ethical considerations of AI in education, preparing them to implement AI responsibly in classrooms or tutoring sessions.

5. Στόχοι:

Upon the completion of the program, participants will be able to:
• In terms of knowledge:
  ○ Recognize how AI can support personalized education, lesson planning, and feedback.
  ○ Recognize ethical implications and potential threads, including privacy and bias, when using AI in education.
  ○ Distinguish between reliable use of AI tools and ineffective/inappropriate applications.
 	
• In terms of skills:
  ○ Use AI tools to create tailored lesson plans, assignments, and assessments.
  ○ Provide adaptive feedback and identify learning gaps using AI-driven analytics.
  ○ Select the most suitable AI tools based on their learning/teaching objectives.
  ○ Design educational material.
  ○ Apply AI tools for automatic grading.
• In terms of attitudes:
  ○ Embrace AI as a supportive tool for enhancing learning outcomes.
  ○ Promote ethical and secure use of AI in educational environments.
  ○ Motivate students on how to use AI in education responsibly.
  ○ Allow more time for educators to support students to understand the lesson better rather than wasting time on planning it.

Αναβύσσου 2, 2025 Στρόβολος, Τ.Θ. 25431, 192 Λευκωσία, Κύπρος, τηλ.: +357 22515000, Ηλ. Ταχ.: info@anad.org.cy Ιστοσελίδα: www.anad.org.cy

6. Περιγραφή υποψηφίων για συμμετοχή:

This program is designed for:

- **Educators**: Teachers and instructors looking to personalize learning experiences.
- **Parents**: Interested in using AI tools to supplement their child's learning.
- **Tutors**: Seeking to enhance their teaching with adaptive content and feedback.
- **Students**: With an interest in learning how AI can support self-directed education.

No programming knowledge is required, but participants should be familiar with basic educational tools and methodologies.

**Participants are kindly requested to bring their own laptops for the training.*

7. Περιεχόμενο κατάρτισης:

Α/Α Ενότητας	**ΑΝΑΛΥΣΗ ΠΕΡΙΕΧΟΜΕΝΟΥ ΕΝΟΤΗΤΩΝ**	**ΔΙΑΡΚΕΙΑ (ΩΡΕΣ)**

Ενότητα 1	**<u>Introduction to Generative AI in Education</u>**
	• Overview of generative AI tools for education:
	  ○ Introduction to popular generative AI tools such as ChatGPT, Grammarly
	  ○ Understanding the core functionalities and unique capabilities of these tools in an educational context
	• Exploring the benefits and limitations of AI in teaching:
	  ○ Advantages: Personalized learning, enhanced content creation, and streamlined administrative tasks.
	  ○ Limitations: Ethical concerns, over-reliance on AI, and potential biases in AI-generated content.
	• Real-world examples of AI-enhanced educational platforms:
	  ○ Case studies showcasing the integration of generative AI in classrooms.
	  ○ Examples of tools used for lesson planning, language learning, assessment generation, and student feedback
		3

Ενότητα 2	**<u>Personalized Lesson Planning</u>**
	• Using AI to create individualized lesson plans and activities:
	  ○ Understanding the role of AI in analyzing student data to inform lesson planning.
	  ○ Exploring AI-driven tools for tailoring content to different skill levels, interests, and learning paces/disabilities.
	• Generating assignments tailored to diverse learning needs:
	  ○ Utilizing AI to create assignments that accommodate various learning styles and abilities.
	  ○ Strategies for ensuring accessibility and inclusivity in AI-generated educational content
	• Hands-on: Crafting a personalized lesson plan with AI:
	  ○ Step-by-step guidance on using AI platforms to design a customized lesson plan.
	  ○ Practical exercises to create activities and assignments for a hypothetical or real classroom scenario.
		3

Αναβύσσου 2, 2025 Στρόβολος, Τ.Θ. 25431, 192 Λευκωσία, Κύπρος, τηλ.: +357 22515000, Ηλ. Ταχ.: info@anad.org.cy Ιστοσελίδα: www.anad.org.cy

Ενότητα 3	**Adaptive Feedback and Assessments**
	• Leveraging AI tools for providing real-time feedback to students:
	  ○ Understanding the capabilities of AI in analyzing student work and delivering immediate, constructive feedback.
	  ○ Exploring tools that adapt feedback to individual student needs and learning progression.
	• Automating grading for quizzes and assignments:
	  ○ Utilizing AI to efficiently grade multiple-choice, short-answer, and essay-style assignments.
	  ○ Addressing accuracy, fairness, and transparency in AI-based grading systems.
	• Hands-on: Generating feedback and assessments using AI tools:
	  ○ Practical guidance on using AI platforms to design adaptive quizzes and assignments.
	  ○ Creating customized feedback for different scenarios.
		3

Ενότητα 4	**Enhancing Engagement and Creativity**
	• Creating engaging educational content (e.g., stories, quizzes, and games):
	  ○ Strategies for making learning materials visually appealing and immersive.
	• Using AI to encourage student creativity and problem-solving:
	  ○ Exploring AI applications that promote critical thinking and innovation in students.
	  ○ Facilitating collaborative and exploratory learning experiences through AI-driven activities.
	• Hands-on: Generating interactive and creative materials:
	  ○ Practical exercises in using AI to develop creative lesson materials, such as gamified quizzes or narrative-based learning scenarios.
	  ○ Customizing content to match specific learning objectives and student interests.
		3

Ενότητα 5	**Ethical and Privacy Considerations**
	• Addressing privacy, security, and bias in AI-driven education:
	  ○ Understanding data privacy regulations and best practices for protecting student information.
	  ○ Identifying and mitigating biases in AI algorithms to ensure fair and accurate outcomes.
	  ○ Strategies for building trust and transparency in AI usage.
	• Ensuring equitable access to AI tools for diverse learners:
	  ○ Exploring ways to make AI tools accessible and inclusive for students from various socioeconomic and cultural backgrounds.
	  ○ Addressing challenges related to resource availability and learning disabilities.
	• Discussing future trends in AI-enhanced education:
	  ○ Examining emerging innovations, such as AI tutors, and augmented reality integration.
	  ○ Considering the long-term implications of AI on teaching practices, student learning, and students/teachers mental health
		3

Ενότητα 6	**AI for Self-Directed Learning**
	• Helping students use AI for independent learning and exploration:
	  ○ Teaching students how to effectively use AI tools to enhance their self-directed learning experiences.
	  ○ Encouraging critical thinking, curiosity, and exploration through AI-driven resources.
	• Demonstrating AI as a learning companion rather than a replacement for teachers:
		3

Αναβύσσου 2, 2025 Στρόβολος, Τ.Θ. 25431, 192 Λευκωσία, Κύπρος, τηλ.: +357 22515000, Ηλ. Ταχ.: info@anad.org.cy Ιστοσελίδα: www.anad.org.cy

	○ Understanding the complementary role of AI in supporting student learning while maintaining the importance of teacher guidance/personalised relation. • Hands-on: Developing self-directed learning paths with AI: Practical exercises for designing personalized learning and becoming independent learners.	

Αναβύσσου 2, 2025 Στρόβολος, Τ.Θ. 25431, 192 Λευκωσία, Κύπρος, τηλ.: +357 22515000, Ηλ. Ταχ.: info@anad.org.cy Ιστοσελίδα: www.anad.org.cy