

Certificate

02255

Is hereby granted to

Mamyrbekova Aigul

in formal recognition of completion of the program of the online course

**«Artificial Intelligence in Education:
A Practical Course for Educators»**

November 14th, 2024 - January 12th, 2025 (84 hrs)

Tatsiana Sarakavik

Executive Director
the International Center for Educational Technologies (ICET, Czech Republic),
Head of the online educational platform SKLAD,
PhD in Pedagogical Sciences



Talgat Turemuratov

Chairman
Private Fund "INTERNATIONAL ACADEMY OF PEDAGOGY"
Republic of Kazakhstan



APPENDIX 1 TO CERTIFICATE 02255

Program of the online course

«Artificial Intelligence in Education: A Practical Course for Educators»

Module 1. Introduction to AI and Neural Networks

Lesson 1. What is AI and Neural Networks? How Neural Networks Work

Lesson 2. Overview of Key Neural Networks in the Context of Education

Lesson 2.1. Registration and Setting Up Work with ChatGPT

Lesson 3. Prompt or Effective Request

Lesson 3.1. How to Formulate Requests for Educational Purposes Using AI-Based Chatbots

Lesson 4. Neural Networks in Everyday Life. Examples of Use

Module 2. Personalized learning using AI

Lesson 1. AI and neural networks for adaptive learning

Lesson 2. Creating educational content with AI and neural networks

Lesson 2.1. Instructional design. Workshop on creating and modifying the curriculum and program

Lesson 2.2. Workshop on creating a lesson plan

Lesson 2.3. Workshop on creating didactic materials: cases, checklists, tests, games, etc.

Lesson 2.4. Workshop on Gamma.app

Lesson 3. Creating infographics: practical use of Napkin.ai for visualizing educational material

Module 3. Using AI and neural networks for assessment, learning support and research work

Lesson 1. AI and neural networks for assessment and feedback

Lesson 1.1. Feedback and assessment workshop

Lesson 2. AI for supportive learning: AI-tutor, AI-mentor, AI-coach

Lesson 3. Research work and neural networks

Module 4. Interactive Learning with AI

Lesson 1. AI for Visual Content Generation: Functions and Commands

Lesson 1.1. Midjourney Workshop

Lesson 1.2. Bing Image Creator Workshop

Lesson 1.3. Using Krea.ai to Generate Images in Real Time

Lesson 2. Runway Gen 3. Creating and Editing Visuals, Infographics, Animations, and Videos

Lesson 3. Animation with Luma AI: Developing Creative Skills and Visualization in Education

Lesson 4. Dubverse.ai: Video Duplication with Neural Networks

Lesson 5. Sound Processing and Voice Synthesis with Elevenlabs.io

Module 5. Language capabilities of neural networks: from text to audio

Lesson 1. Functions of neural networks-translators

Lesson 1.1. DEEPL workshop

Module 6. Neural networks for creating music and voice cloning: musical accompaniment and Deep Fake for educational purposes

Lesson 1. Neural networks for working with music. Creating musical accompaniment for lessons using Suno

Lesson 2. Voice cloning and Deep fake. Review of current technologies

Lesson 3. Creating a digital avatar: potential and application in education

Module 7. Chatbots for automation and personalization of the educational process

Lesson 1. Integration of chatbots into the educational process

Lesson 2. Basics of creating chatbots (agents). Examples of successful cases

Lesson 3. Workshop on connecting agents to a Telegram bot

Lesson 4. Introduction to Character.ai. Examples of use in the educational process (creation of virtual assistants, modeling emotions, support for students, development of emotional intelligence)

Module 8. Data Analysis and Forecasting with AI

Lesson 1. AI Tools and Neural Networks for Data Analysis

Lesson 2. Using ChatGPT and Data Analyst in Educational Data Analysis

Lesson 2.1. Workshop on Using the Data Analyst Model for Analytics in Education

Module 9. Ethics and Legal Aspects

Lesson 1. Ethical Issues in Using AI

Lesson 2. Legal Aspects and Data Protection

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Module 10. International practices of using AI in the educational process

1. AI Will Set Education Back 2500 Years... And That's a Good Thing

Speaker – **Robert Clapperton**, Associate Professor in the School of Professional Communications at Toronto Metropolitan University (Canada)

2. Atypical AI - Designing Impactful Conversational Agents

Speaker – **Bethanie Drake-Maples**, Research Fellow at the Institute for Human-Centered Artificial Intelligence and PhD Candidate in Learning Sciences and Technology Design (LSTD), Stanford University, led products for the Google AI and Google X teams, advises the OECD, UNESCO and philanthropic foundations on policy, education and technology in the field of artificial intelligence (the USA)

3. Writing with ChatGPT: is it cheating or learning?

Speaker – **Sarah R. Levine**, Assistant Professor, Graduate School of Education, Stanford University (the USA)

4. Generative AI in an Actual Classroom: Practical Tips for using AI in Education

Speaker – **Michael Cowling**, Associate Professor of Information & Communication Technology, CQUniversity, recipient of the Universities Australia AAUT Award for Teaching Excellence (Physical Sciences), President (2023 to 2025) of the Australasian Society for Computers in Learning in Tertiary Education (ASCILITE) (Australia)

5. Generative AI, Assessment and the future of jobs and careers

Speaker – **Graham Attwell**, Honourary Associate Professor at the University of Warwick and Honourary Wissenschaft Mitarbeiter at the University of Bremen, founder of the Pontydysgu research accompanies in the UK and Spain (the UK, Spain)

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6. TeacherMatic: Using AI to save time and improve creativity

Speaker – **Peter Kilcoyne**, Managing Director, Innovative Learning Technologies Ltd. the company behind the AI platform TeacherMatic (the UK)

7. Using Ai-Powered Chatbots In University Teaching

Speaker – **Prof. Alexander Sidorkin**, Chief AI Officer and Director, National Institute on AI in Society, California State University Sacramento (the USA)

8. How can we prepare students, teachers, and schools to embrace AI?

Speaker – **Thomas Chiu** is Assistant Professor at the Department of Curriculum and Instruction, and Associate Director of the Centre for University and School Partnership and Centre for Learning Sciences and Technologies at The Chinese University of Hong Kong, ranked 10th on the global list from 2017 to 2022 using the SciVAL Citation Index (China)

9. Reimagining authentic curriculum in the age of AI

Speaker – Professor **Michael Sankey**, Director, Learning Futures and Lead Education Architect at Charles Darwin University (Australia)

10. The AI Compass: Navigating the New Landscape of Educational Assessment

Speaker – **Prof. Víctor González-Calatayud**, Lecturer of Educational Technology in the Department of Didactics and School Organization at the University of Murcia, a member of the Educational Technology Research Group and the EDUTEC association (Association for the Development of Educational Technology in Spain and Latin America) (Spain)

11. Adaptive learning with the help of AI

Speaker – **Peter Norvig**, Distinguished Fellow at the Stanford Institute for Human-Centered Artificial Intelligence, formerly Director of Research and Search Quality at Google, and co-author (with Stuart J. Russell) of the most popular textbook in the field of artificial intelligence: Artificial Intelligence: A Modern Approach, which used in more than 1500 universities in 135 countries (USA)

12. Artificial Intelligence and the Future of Education

Speaker – **Dr. Scott Bolland**, artificial intelligence researcher, entrepreneur, international speaker, facilitator, futurist (Australia)