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CENTER
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Donetsk State University of Internal Affairs

Vinnitsia National Technical University

**Center for Ukrainian and European
Scientific Cooperation**

The All-Ukrainian scientific and pedagogical advanced training

STEM AND STEAM EDUCATION TRENDS OF DIGITALIZATION DEVELOPMENT AMIDST EUROPEAN INTEGRATION

December 2, 2024 – January 12, 2025

We invite academic and research staff of higher education and scientific institutions, practitioners, undergraduate, postgraduate and postdoctoral students, and all interested in STEM education to participate in the All-Ukrainian scientific and pedagogical advanced training.

The professional program of advanced training is based on the latest scientific approaches to the organization of adult learning, achievements of psychological-pedagogical, social, and behavioral sciences. It is focused on the development and advancement of psychological-pedagogical, communicative, communication competencies, as well as practical skills and attainments of interactive communication and professional-personal growth to improve professional communication and the implementation of teaching activities.

All participants will be provided with ***a collection of abstracts*** and **an electronic certificate**.

The workload of advanced training consists of ***6 credits ECTS (180 hours)*** and distributes 6 hours each day for 6 business weeks.

Members of the Organizing Committee:

- **Stryzhak Oleksandr Yevheniiiovych** – Doctor of Engineering, Professor, Senior Research Associate, Deputy Director for Research, National Center “Junior Academy of Sciences of Ukraine”;
- **Kuzmenko Olha Stepanivna** – Doctor of Pedagogy, Professor, Gender Advisor of Donetsk State University of Internal Affairs, Leading Research Associate at the Department of Information and Didactic Modelling of the National Center “Junior Academy of Sciences of Ukraine”;
- **Dembitska Sofiia Vitaliivna** – Doctor of Pedagogy, Professor, Professor at the Department of First Aid and Emergency Response and Safety Pedagogy, Vinnytsia National Technical University;
- **Savchenko Iryna Mykolaivna** – PhD in Pedagogy, Senior Research Associate, Academic Secretary, National Center “Junior Academy of Sciences of Ukraine”.

The event includes three ZOOM lectures:



- **December 5, 15:00** – lecture “*STEAM trend: theory and practice*”. Speaker – **Savchenko Iryna Mykolaivna**, PhD in Pedagogy, Senior Research Associate, Academic Secretary, National Center “Junior Academy of Sciences of Ukraine”.

- **December 11, 15:00** – lecture “*Educational paradigms of artificial intelligence*”. Speaker – **Stryzhak**

Oleksandr Yevheniiiovych, Doctor of Engineering, Professor, Senior Research Associate, Deputy Director for Research, National Center “Junior Academy of Sciences of Ukraine”.



- **December 16, 15:00** – lecture “*STEM and STEAM at different institutional levels of education: the context of gender gap and inclusion*”. Speaker – **Kuzmenko Olha Stepanivna**, Doctor of Pedagogy, Professor, Gender Advisor of Donetsk State University of Internal Affairs, Leading Research Associate at the Department of Information and Didactic Modelling of the National Center “Junior Academy of Sciences of Ukraine”.



A link to the online lecture will be sent to all participants
after paying participation fees.
Online lectures will be saved.

Registration Procedure:

Participation form: remote.

Persons who are interested in participation should **before November 27, 2024 (inclusively):**

- 1) [fill an application form](#);
- 2) send a copy of payment confirmation to Organizing advanced_training@cuesc.org.ua (the coordinator provides you with payment details when you fill in an application).

NB!

From ***December 2, 2024*** to ***January 12, 2025*** (inclusively), during the advanced training, participants should send **research-methodological abstracts** to advanced_training@cuesc.org.ua.

RE: STEM education advanced training.

Participation in the scientific and pedagogical advanced training without research and methodological report is impossible.

After February 28, 2025, every participant will receive a collection of abstracts and a certificate via e-mail indicated in the participation form.

Requirements for Abstracts:

Volume – from 2 to 5 pages, A-4, Microsoft Word.

Font – Times New Roman, size – 14; line spacing – 1,5; the first line indentation – 1,25 cm; margins – 2 cm.

Sequence of materials in abstracts: title (semi-bold capitals); the author's surname and initials (semi-bold); academic degree, rank (if any), post, place of employment (study); text.

A file should be titled in accordance with the participant's surname and initials (for example: Shevchenko T.H._abstracts).

References (without repetitions) are at the bottom of the text taking into account the National Standard of Ukraine [DSTU 8302: 2015 “Information and documentation. Bibliographic reference. General principles and rules of composition”](#). Citations in the text should be marked with numerical order of a source according to the list and page (pages) number, for example [5, p. 26].

Languages: Ukrainian, English.

Academic integrity:

The Organizing Committee of the All-Ukrainian Advanced training guarantees high-quality anonymous peer-review of each contribution. All papers are subject to check for plagiarism using StrikePlagiarism.com by the Polish company Plagiat.pl.

Prohibition on using the aggressor state's scholarly papers:

Languages: Ukrainian and English. It is prohibited citing and including in the reference list Russian-language publications published in any country, including papers written in other languages but published in Russia and Belarus.

Contacts:

Center for Ukrainian and European Scientific Cooperation

Contact person: **Liashchova Anastasiia Oleksandrivna**,
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Facebook: facebook.com/cuescinfo

YouTube: youtube.com/channel/cuescinfo



Sample of Abstracts:

Підходи до підготовки майбутніх педагогів до впровадження STEM-освіти

Барна О. В.

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Шмигер Г. П.

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м. Тернопіль, Україна*

В умовах реформування освіти та її переорієнтації на формування компетентностей випускника... [1].

<...>

Література:

1. Elaine J. Hom. What is STEM Education.
URL: <https://www.livescience.com/43296-what-is-stem-education.html> (дата звернення: 25.08.2023).