

EUROPEAN SECURITY AND DEFENCE COLLEGE
and
KAUNAS UNIVERSITY OF TECHNOLOGY (KTU)

Invitation to the pilot course:

**‘Practical application of key emerging technologies in
civilian CSDP missions, with a focus on criminal investigations
and the fight against organised crime’**

(ESDC activity number 24-25/PILOT)

**13 – 15 November 2024 (fully residential)
at Kaunas University of Technology, Lithuania**

It is a great pleasure to invite you to the ‘Practical application of key emerging technologies in civilian CSDP missions, with a focus on criminal investigations and the fight against organised crime’ pilot course. The Kaunas University of Technology (KTU), under the auspices of the European Security and Defence College (ESDC), is organising this specialised residential course for technical-level specialists from 13 to 15 November 2024 in Kaunas, Lithuania.

The aim of the course

The aim of this course is to equip participants with knowledge and practical skills in emerging technologies, including artificial intelligence (AI), chatbots (ChatGPT), augmented and virtual reality (AR/VR), data analysis, cryptocurrency analytics, and cybersecurity, to help them effectively combat new threats and enhance their investigative capabilities. The overall goal is to enhance civilian mission members’ knowledge and understanding of current and upcoming technologies deployed by their counterparts in civilian CSDP missions. This ensures participants are well-equipped to engage in critical discussions about the opportunities, challenges, and compliance aspects of technological deployments, ultimately supporting the missions’ mandate of establishing safe and secure communities.

The course provides updates on the latest technological advances and allows participants to gain hands-on experience with relevant technologies. Participants will build their own chatbots and smart tools, explore and investigate cases using blockchain analysis tools, analyse crime patterns and predictions, and delve into the cyber toolsets used by both high-level criminals and law enforcement. The course concludes with the development of a roadmap for technology deployment to counter criminal organisations in a simulated mission scenario.

This course is a pivotal response to the Training Requirements Analysis – ‘Policing 4.0’ EU Civilian Training Area (WK 10899/2023 INIT of 1 September 2023)¹ and contributes to enhancing the digital skills and strategic autonomy of professionals.

EU strategic links

This course is closely linked to the 2023 Civilian Common Security and Defence Policy (CSDP) Compact, which emphasises the importance of technology-driven innovation in civilian CSDP. Specifically, it supports the Compact’s goals of fostering a more systematic approach to technological innovation, promoting collaboration between the EEAS, European Commission, and Member States, and strategically allocating resources for emerging technologies like artificial intelligence to enhance digital support for civilian CSDP missions.

The course is an activity of the ESDC’s Cyber Education Training Exercise and Evaluation (ETEE) platform.

The course will be held in English and will consist of both lectures and practical exercises.

The course is mainly aimed at members of civilian CSDP missions involved in the application of key emerging technologies as part of their current or prospective roles in the civilian security sector. This includes experts, both technical and non-technical, from EU Member States, with a particular emphasis on law enforcement officers to be deployed in civilian CSDP missions.

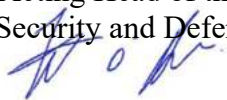
The ESDC is committed to an inclusive, gender-sensitive and discrimination-free environment. Only in an inclusive environment can all people, and therefore the ESDC and its partners, realise their true potential. We therefore particularly encourage applicants from under-represented groups to apply.

The course is scheduled to take place from 13 to 15 November 2024 in a residential format in Kaunas, Lithuania.

Please find below all the details regarding the registration process for this course.

24 July 2024

Fergal O’Regan
Acting Head of the
European Security and Defence College



Paulius Klikunas
Coordinator of Digital Detective School
Kaunas University of Technology



Annexes

- A. Course administrative instructions
- B. Draft programme
- C. Transportation and logistics

¹ <https://data.consilium.europa.eu/doc/document/ST-13553-2023-INIT/en/pdf>

Annex A

Course administrative instructions

Course: ‘Practical application of key emerging technologies in civilian CSDP missions, with a focus on criminal investigations and the fight against organised crime’

**13 – 15 November 2024 (fully residential) at
Kaunas University of Technology, Lithuania**

The course will be held in English from **13 to 15 November 2024** in **fully residential format in Kaunas, Lithuania**, with sufficient accommodation for a **maximum of 20 participants**.

Target audience: The course is open to mid-ranking to senior officials from the Member States and the EU institutions, bodies and agencies dealing with the application of key emerging technologies as part of their current or prospective roles in the civilian security sector. Due to the technical nature of this course, in order to benefit fully from the training, it is recommended that candidates have at least a basic knowledge of technologies and understand the civilian CSDP mission context where they are deployed.

How to apply: Applications from the EU Member States and institutions are to be filled out by the national ENLIST nominators via the ESDC secure registration system at the following link <https://esdc.europa.eu/enlist/login>, by **no later than 10 October 2024**. A list of relevant ENLIST nominators can be retrieved from the ESDC website at <https://esdc.europa.eu/nominators/>.

Registration: Registration will not be final until confirmed by the ESDC Secretariat. When the participants’ list is finalised, the course administrators will contact the selected participants and provide detailed information on the course.

Please do not book flights and accommodation before receiving the confirmation message.

Medical emergency: Costs should be covered by the participants’ medical insurance provided by the sending country/organisation. The organiser will not provide health or accident insurance for participants.

Number of participants: The course capacity is 20 participants.

Language: The working language is English, without translation or interpretation.

Dates: The course starts on Wednesday 13 November 2024 and ends on Friday 15 November 2024. The draft agenda is attached as Annex B.

Dress code: Smart casual for all participants, including civilians and military personnel.

Cost: The course is free of charge. The sending authorities will cover all costs for travel and accommodation. It is recommended that participants arrive at Kaunas International Airport by Tuesday 12 November 2024 at the latest. Participants should arrange their own travel and accommodation. Further information will be sent to participants following registration.

E-learning: The residential part of the course will be preceded by a mandatory online e-learning part (*asynchronous*) on the ESDC’s e-learning platform (ILIAS LMS). The mandatory e-learning modules needs to be finalised before the live part (*residential format*) starts, both parts being compulsory. Detailed information will be shared with the selected participants.

Supporting services: All administrative information, programmes and material will be made available to the accepted participants through the ESDC’s e-learning platform (ILIAS LMS).

Attendance is mandatory for all course days. A certificate will be awarded to those course participants who have completed the full course, including the mandatory e-learning modules.

Location: The course will take place at the premises of the Kaunas University of Technology, Lithuania. Additional information can be found in Annex C.

Diversity and inclusion

The ESDC seeks to create a gender-sensitive and inclusive environment in all its courses, activities and day-to-day work. Everyone, and therefore the ESDC and its partners, can only reach their true potential in an inclusive environment. We do not discriminate on the basis of race, colour, religion, gender, gender expression, age, national origin, disability, marital status or sexual orientation in any of our activities or operations. The ESDC and the training institutes do not tolerate any conduct that violates these values.

Course points of contact

European Security and Defence College:	Kaunas University of Technology:
<ul style="list-style-type: none"> • Mr Giuseppe Zuffanti Coordinator for cyber issues and for the Cyber ETEE platform - Cyber Training Manager – National Expert giuseppe.zuffanti@eeas.europa.eu 	<ul style="list-style-type: none"> • Mr Paulius Klikunas paulius.klikunas@ktu.lt • Dr Panagiotis Kostakos Panagiotis.kostakos@ktu.lt

European Security and Defence College (ESDC)

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Kaunas University of Technology, Lithuania

**Pilot ESDC Course: ‘Practical application
of key emerging technologies in civilian
CSDP missions, with a focus on criminal
investigations and the fight against
organised crime’**

(ESDC activity number: 24-25/PILOT)

DRAFT PROGRAMME Rev. 1

13 November – 15 November 2024 – residential format

Course venue

Kaunas University of Technology, A. Mickevičiaus g. 37 - 212
Kaunas, 44244 Kauno m. sav., Lithuania

Course Director

Coordinator of Digital Detective School
Kaunas University of Technology
Paulius Klikunas

European Security and Defence College (ESDC)

Coordinator for cyber issues and for the Cyber ETEE platform
Cyber Training Manager – National Expert
Giuseppe Zuffanti

DAY 1 (GMT+2)	<u>Wednesday, 13 November 2024</u>
08:30 - 09:00	<u>Registration</u> <u>Welcome coffee</u>
09:00 - 10:00	Welcome and opening address, informal tour de table and group photo <ul style="list-style-type: none"> • Deputy Ministry of Foreign Affairs of the Republic of Lithuania (TBC) • Dr Ainius Lašas, Dean, Kaunas University of Technology (KTU) • Mr Giuseppe Zuffanti, Coordinator for cyber issues and for the Cyber ETEE platform – National Expert, European Security and Defence College (ESDC), Brussels
10:00 - 10:15	<u>Coffee break</u>
10:15 - 11:15	SESSION 1 - Technology outlook for the security sector
	<ul style="list-style-type: none"> • Mr Paulius Klikunas, KTU
11:15 - 11:30	<u>Coffee break</u>
11:30 - 12:30	SESSION 2 - Introduction to generative AI and chatbot development for law enforcement - technical overview
	<ul style="list-style-type: none"> • Dr Panagiotis Kostakos, KTU
12:30 - 13:30	<u>Lunch break</u>
13:30 - 14:30	SESSION 3 - Introduction to generative AI and chatbot development for law enforcement – hands-on
	<ul style="list-style-type: none"> • Dr Panagiotis Kostakos, KTU
14:30 - 14:45	<u>Coffee break</u>
14:45 - 16:15	SESSION 4 - Introduction to crime data analysis and prediction systems - technical overview & hands-on
	<ul style="list-style-type: none"> • Dr Dmytro Uzlov, Associate Professor, Department of Artificial Intelligence, Kharkiv National University of Radio Electronics, Ukraine
16:15 - 16:30	<u>Closing remarks – End of day 1</u>
	<ul style="list-style-type: none"> • Mr Paulius Klikunas, KTU
19:30 - 21:00	<u>Social event</u>

DAY 2 (GMT+2)	<u>Thursday, 14 November 2024</u>
08:30 – 09:00	<u>Welcome coffee</u>
09:00 – 10:00	SESSION 5 - Introduction to augmented and virtual reality (AR/VR)
	<ul style="list-style-type: none"> • <i>Center for Ubiquitous Computing, University of Oulu, Finland</i>
10:00 – 10:15	<u>Coffee break</u>
10:15 – 11:15	SESSION 6 - Cryptocurrency analytics for law enforcement - technical overview
	<ul style="list-style-type: none"> • <i>Michael Seidl, Austrian Institute of Technology (AIT)</i>
11:15 – 11:30	<u>Coffee break</u>
11:30 – 12:30	SESSION 7 - Cryptocurrency analytics for law enforcement - hands-on
	<ul style="list-style-type: none"> • <i>Michael Seidl, Austrian Institute of Technology (AIT)</i>
12:30 – 13:30	<u>Lunch break</u>
13:30 – 14:30	SESSION 8 – Introduction to hacking and digital forensics for law enforcement - technical overview
	<ul style="list-style-type: none"> • <i>Mr Mazvydas Kurys, Head of Cyber Command of the Lithuanian Riflemen Union</i>
14:30 – 14:45	<u>Coffee break</u>
14:45 – 15:45	SESSION 9 – Introduction to hacking and digital forensics for law enforcement - hands-on
	<ul style="list-style-type: none"> • <i>Mr Mazvydas Kurys, Head of Cyber Command of the Lithuanian Riflemen Union</i>
15:45 – 16:00	<u>Coffee break</u>
16:00 – 16:20	<u>Closing remarks – End of day 2</u>

DAY 3 (GMT+2)	Friday, 15 November 2024
08:30 – 09:00	<i>Welcome coffee</i>
09:00 – 10:00	SESSION 10 – Workshop – Introduction and scenario building
	<ul style="list-style-type: none"> • <i>Mr Kęstutis Lančinskas, Head of EU Capacity Building Mission in Somalia (EUCAP Somalia)</i> • <i>Mr Paulius Kli kunas, KTU</i>
10:00 – 10:15	<i>Coffee break</i>
10:15 – 11:15	SESSION 11 – Workshop – Brainstorming and report writing
	<ul style="list-style-type: none"> • <i>Mr Panagiotis Kostakos, KTU</i> • <i>Mr Paulius Kli kunas, KTU</i> • <i>All participants</i>
11:15 – 11:30	<i>Coffee break</i>
11:30 – 12:30	SESSION 12 – Workshop – Presentation & discussion
	<ul style="list-style-type: none"> • <i>Mr Panagiotis Kostakos, KTU</i> • <i>Mr Paulius Kli kunas, KTU</i> • <i>All participants</i>
12:30 – 13:30	<i>Lunch break</i>
13:30 – 14:30	CLOSING REMARKS & CERTIFICATE CEREMONY
	<ul style="list-style-type: none"> • <i>Dr Ainius Lašas, Dean, Kaunas University of Technology (KTU)</i> • <i>Mr Giuseppe Zuffanti, Coordinator for cyber issues and for the Cyber ETEE platform – National Expert, European Security and Defence College (ESDC), Brussels</i>



ESDC Secretariat, 1046 Brussels
<https://esdc.europa.eu>
giuseppe.zuffanti@eeas.europa.eu

ESDC Course Organiser:
 Coordinator for cyber issues and for the Cyber ETEE platform
 Cyber Training Manager - National Expert
 Mr Giuseppe Zuffanti

Annex C

Course: ‘Practical application of key emerging technologies in civilian CSDP missions, with a focus on criminal investigations and the fight against organised crime’ from **13 to 15 November 2024**

Course venue: Kaunas University of Technology, Lithuania

Address: Kaunas University of Technology, A. Mickevičiaus g. 37 – 212, Kaunas, 44244 Kauno m. sav., Lithuania <https://maps.app.goo.gl/ijZbioHZ9zryVXse8>

Recommended hotels: any hotel with good rating and in the proximity of the event

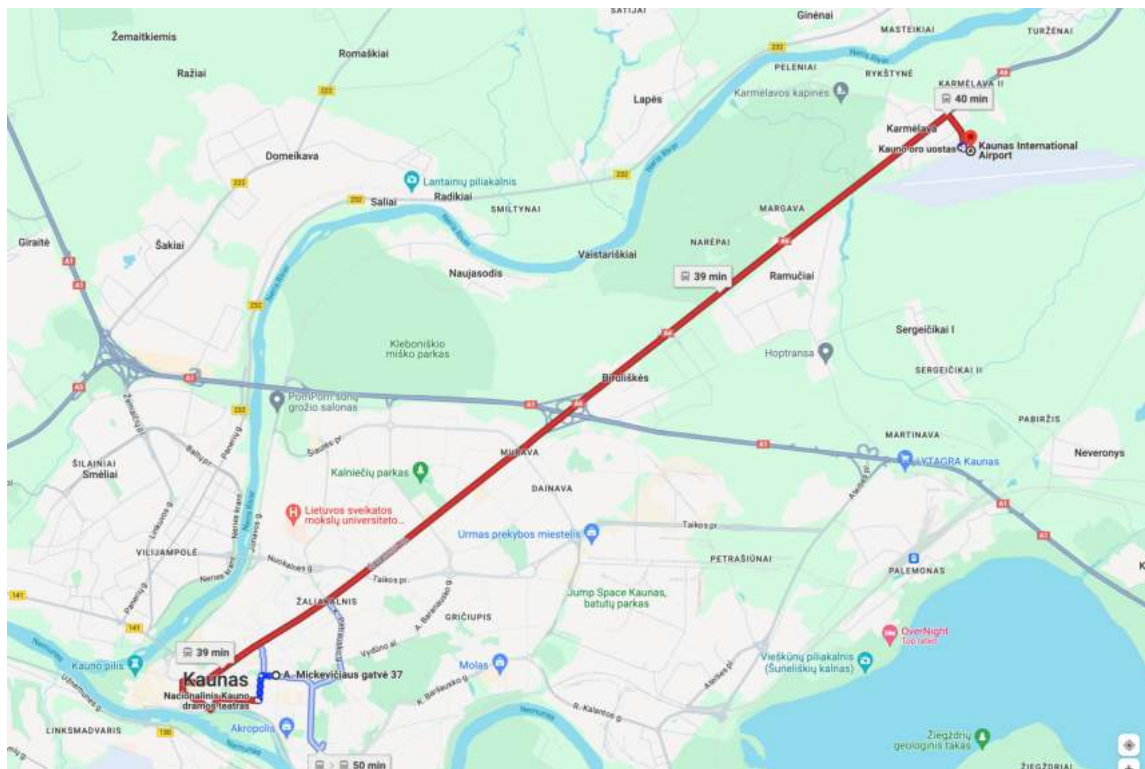
Transportation

Bus tickets can be purchased with cash directly on the bus or through dedicated apps, though cash is the recommended option.

Train tickets can be purchased on board with cash or by credit card, but when travelling between Kaunas and Vilnius it is better to buy your ticket at the train station.

- **Option 1 – landing at Kaunas Airport**

If you land at Kaunas Airport, take public transport to Kaunas bus station and use local transportation to reach the university. Alternatively, services as Uber and Bolt are also available.



- **Option 2 – landing at Vilnius Airport**

The location of the event in Kaunas is ~100 km away from Vilnius Airport, so it is best to have a look at logistics in advance. The recommended route is to take the direct train, shuttle or public transport to get to Vilnius train station and from there take the train to Kaunas train station. In Kaunas use public transport to reach the university.

