CYBER HACK

SUMMER SCHOOL

7/07 - 12/07 | Riga - Liepaja - Riga | Latvia

INFO SESSION AGENDA

12:00	Introduction
12:05	Cybersecurity Today
12:15	About Summer School
12:25	Program Content
12:35	Solutions and Partnership
12:40	Accommodation and Traveling
12:50	Q&A

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$10.5T

Cybercrime will cost companies worldwide an estimated $10.5 trillion annually by 2025

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THE PURPOSE

The purpose of the Cyber Hack summer school is to enhance the experience of ecosystem participants to respond to cybersecurity challenges in unpredictable circumstances.

Promoting understanding and capabilities in cybersecurity and 5G technology, involving both industry involvement and the public sector.

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Cybersecurity in Latvia

An introductory overview

Mihails Potapovs
Head of the EU Cybersecurity Affairs Setion
Mihails.Potapovs@mod.gov.lv

Volume of incident reports
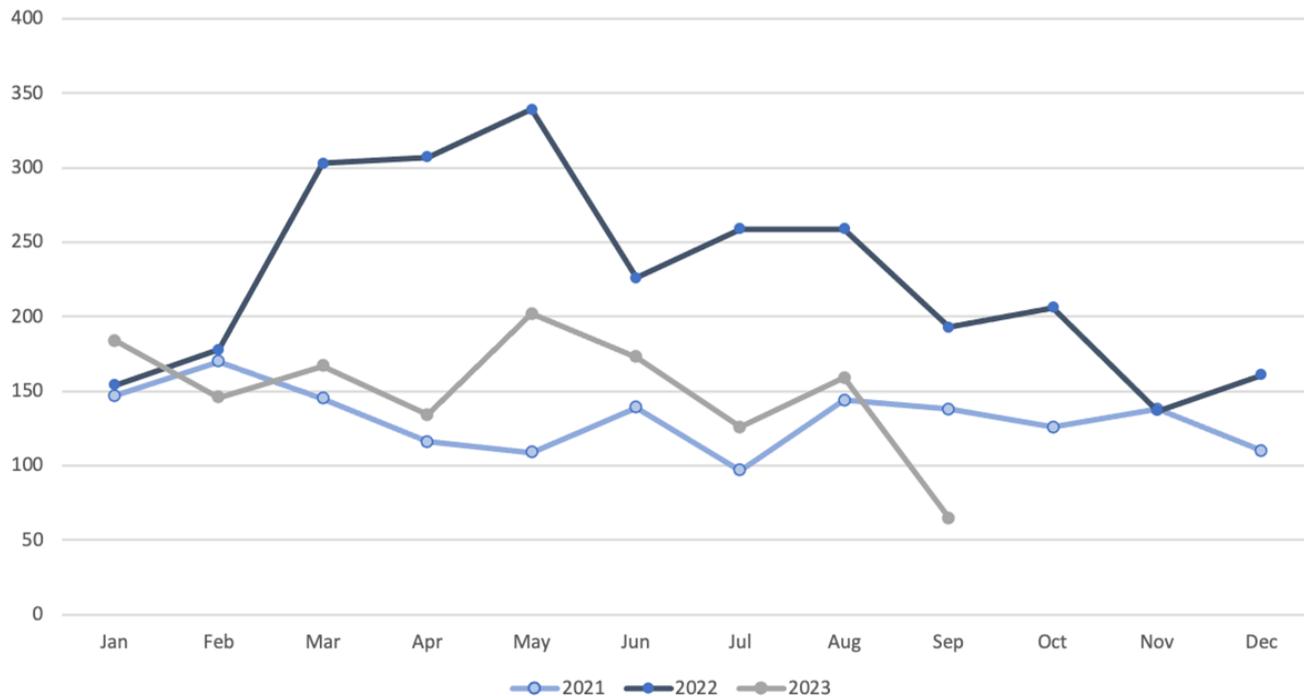
Situation in Latvian cyberspace

Aizsardzības ministrija

Currently, the situation in Latvian cyberspace **has stabilized**

Emphasis on **technically simple attacks** (with some exceptions).

Most attacks are coming from actors connected with the **Russian Federation**, openness about carried activities

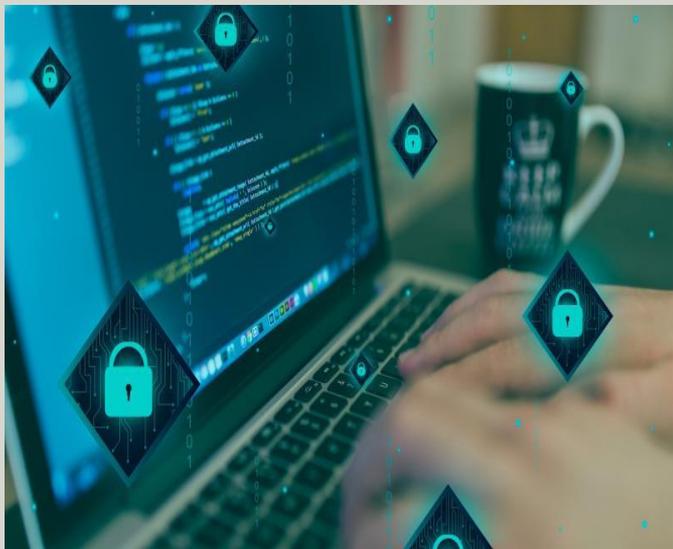Continuous **DDoS activity** and **phishing attacks**

The attacks are happening in waves, often connected with **political** or **social activities**

An increase of various **fraudulent activities** (impersonating police, banks, postal services etc.)

Cybersecurity Strategy 2023-2026

Attēls: Pixabay
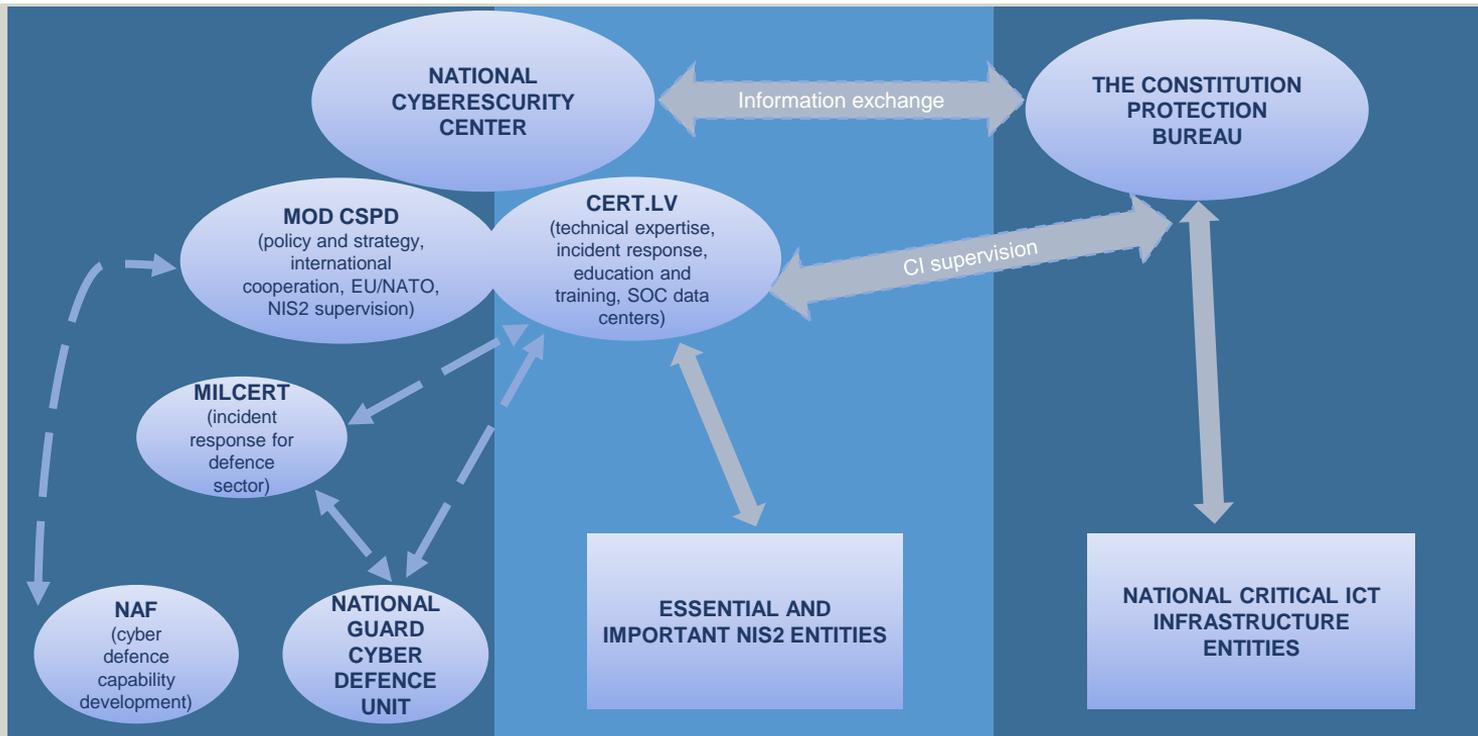
Main directions of action

- Improving cybersecurity governance

- Promoting cybersecurity and strengthening resilience

- Raising societal awareness, education and research

- International cooperation and the rule of law in cyberspace

- Preventing and combating cybercrime

Most important new elements

- New model of governance

- Improving public-private sector cooperation

- United guidelines for cyber hygiene

- Promotion of cybersecurity literacy, promotion of education

- Wider simulation of cyber elements in theoretical and practical training

New governance model

National Cybersecurity Centre
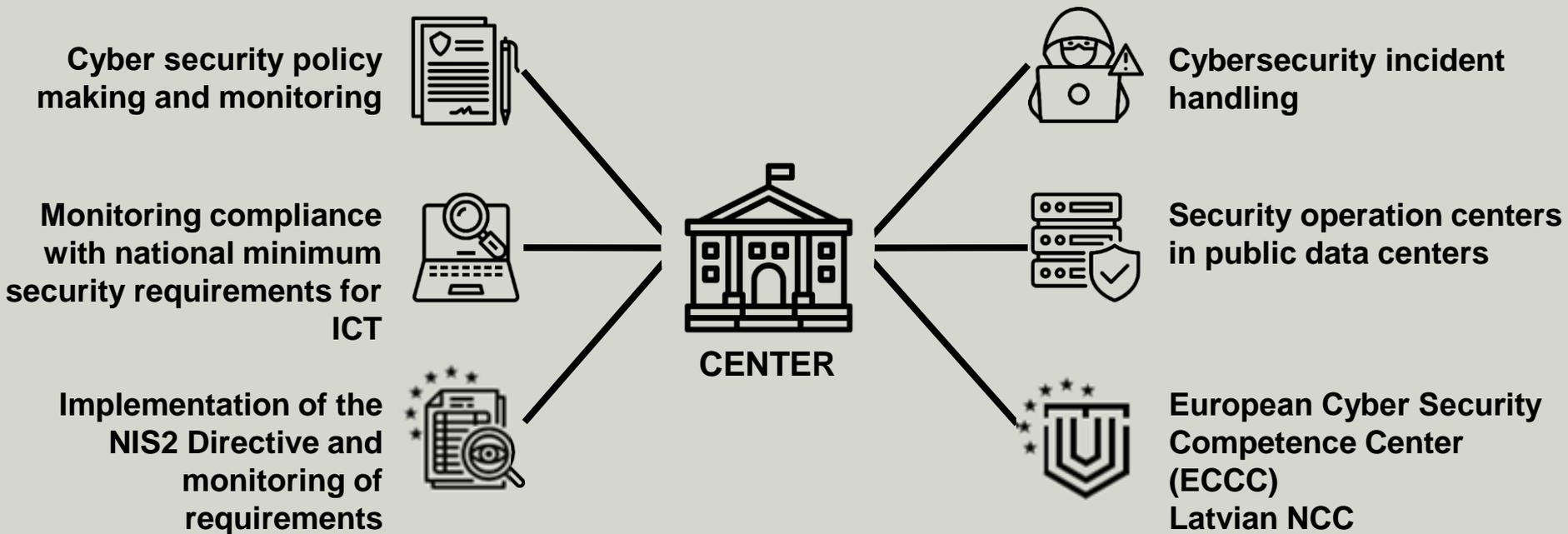
Aizsardzības ministrija

Cyber security policy making and monitoring

Cybersecurity incident handling

Monitoring compliance with national minimum security requirements for ICT

CENTER

Security operation centers in public data centers

Implementation of the NIS2 Directive and monitoring of requirements

European Cyber Security Competence Center (ECCC) Latvian NCC

International cooperation

Aizsardzības ministrija

Thank you for your attention!

NCC@mod.gov.lv

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THEMES

Cybersecurity, 5G, Public Security and Defense

MAIN THEMES

CYBERSECURITY

A cornerstone of the program, focusing on equipping students with defensive strategies and skills to protect against cyber threats.

5G

Explores the capabilities and security implications of 5G networks, preparing students to innovate and secure the next generation of wireless communication.

PUBLIC SECURITY

Examines cybersecurity's role in protecting public infrastructure and services, teaching students about identifying vulnerabilities and implementing protective measures against cyber threats.

DEFENSE

Covers cyber defense strategies in national security, offering insights into the technologies and policies safeguarding against digital threats in military and defense contexts.

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PARTNERS

Industry know-how and challenges

Partners

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WORK ON REAL WORLD CHALLENGES

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CHALLENGES

LMT (5G): "Optimizing 5G Network Resilience"

How to improve the reliability of public services using 5G network speed in case of possible cyber threats?

Liepaja City: "Enhancing Civil Defense"

How digital transformation would change regions and how it would affect municipalities. Topic: Digital transformation and cyber security solutions in the municipality, where to start and how to proceed?

The application of the Cyber Security Regulation challenges and sows both nationally and regionally. Topic: As for cities and their related capital companies that provide powerful services, what could be the scenario for the implementation of regulations, or the road map?

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CONTENT

Lectures and Methodology

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METHODOLOGY

THEORY & CASE STUDIES

The summer school utilizes a theoretical approach, emphasizing foundational concepts and their practical applications through focused lectures and case studies.

INDUSTRY EXPERTS

The summer school employs industry experts, offering guest lectures and mentorship to infuse the curriculum with practical insights and real-world industry perspectives.

AGILE

Introduces Agile and Scrum practices for flexible, efficient project management, critical for navigating the fast-evolving fields of cybersecurity and 5G.

DESIGN THINKING

Emphasizes a user-centric approach to problem-solving, encouraging innovative and practical solutions to cybersecurity challenges.

DESIGN THINKING

Design thinking is a user-centered approach to problem-solving that emphasizes understanding the user's needs, challenging assumptions, and redefining problems in an attempt to identify alternative strategies and solutions

Empathize
Understand users through research and observation.

Define
Synthesize findings into a clear problem statement.

Ideate
Brainstorm a wide range of creative solutions.

Prototype
Create tangible solutions to explore ideas.

Test
Evaluate prototypes with users and refine solutions.
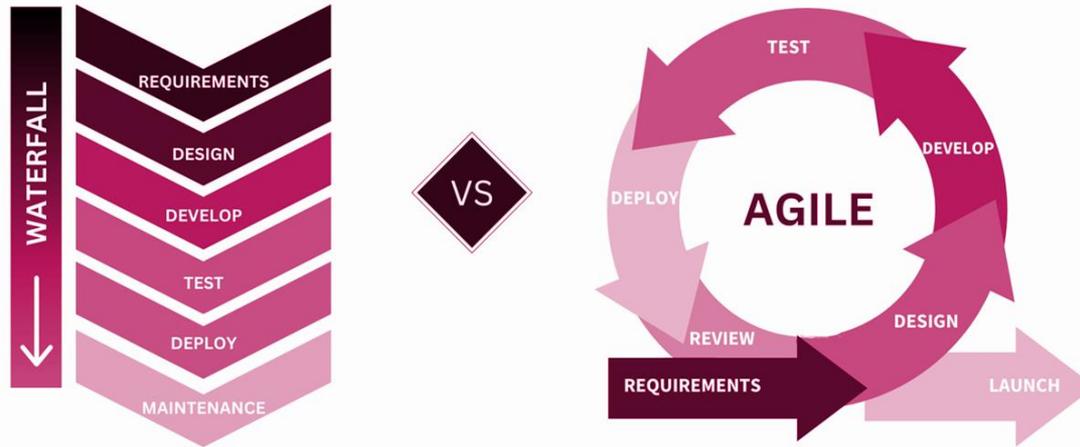
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Agile

Agile methodology is an iterative and incremental approach to project management and software development that emphasizes flexibility, collaboration, and customer feedback to deliver high-quality products efficiently.

Higher success rates in comparison to the traditional Project Management (Waterfall)

International qualifications possible (Scrum Master, Prince, etc.)

Cybersecurity Breach Investigation Workshop

In this interactive workshop, participants step into the roles of a Cyber Security Investigation team tasked with uncovering the perpetrators behind a sophisticated cyberattack on a business entity.
Facilitated by **Dana Ludviga from CERT.LV**

The simulated attack involves multiple vectors, including:

- a phishing scheme,
- unauthorized access,
- a ransomware incident,
- and the dissemination of damaging fake news.

This tabletop exercise is designed to enhance participants' analytical and decision-making skills in a cyber crisis scenario. No prior technical IT or cybersecurity expertise is required.

Developed by ENISA and tailored by CERT.LV, this workshop offers a unique opportunity to experience the challenges of managing a cybersecurity breach.

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Lecturers

Mihails Potapovs

Head of EU Cybersecurity Affairs at Ministry of Defence of the Republic of Latvia

Dana Ludviga

Project Manager and Information systems security analyst at CERT.LV

Rūta Pirta - Dreimane

Researcher & Educator at Riga Technical university

Ieva Brence

Program Director, Researcher at Mācību centrs MP, Scrum Master

Artūrs Filatovs

Head of Cyber Security Services, Latvia State Radio and Television Center

Kārlis Skuja

Design Thinking, UX, WindHacker

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EXPERTS

PUBLIC SECTOR
A seasoned professional with extensive experience in government cybersecurity policies and national security measures.

ACADEMIA
A leading academic specializing in cutting-edge cybersecurity research and innovative 5G technology solutions.

INDUSTRY
A top industry practitioner with hands-on expertise in implementing cybersecurity strategies and 5G technologies in the corporate world.

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PROGRAM

Riga - Liepaja - Riga

TIMELINE

MONDAY
Cybersecurity in Daily Life & Expert Engagements

TUESDAY
Cyber Design Thinking: Ideation and Concept Development

WEDNESDAY
Cyber Agile: Scrum in Action and Project Development

THURSDAY
Demo Day: Student Innovations and Expert Feedback

FRIDAY
Defense - Civil Perspective, Closing

RIGA TECHNICAL UNIVERSITY

Liepāja

Liepāja

Liepāja

RIGA TECHNICAL UNIVERSITY

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AGENDA

Day 0 - Arrival and Welcome (Riga)

- Welcome event for participants, brief overview of the program, networking opportunities

Day 1 - Introduction to Cyber Security & Industry Meetings (Riga)

- Morning Session (9:00-12:15)
  - Lectures on Defense importance in daily life (Ministry of Defense, RTU, NCC.LV)
  - CERT.LV Latest tendencies and use case
  - Cybersecurity education design, RTU
- Afternoon Session (13:15-17:00)
  - 5 G Technologies and Their Challenges (LMT.LV
  - LVRTC Cyber-Polygon
- Travel to Liepaja
  - The bus organised, arrival in Liepaja approximately 20:00
  - Networking & Social activities

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Day 2 - Cyber & Design Thinking
- Morning Session (9:00-12:15)
  - Cybersecurity Challenges in Liepaja City
  - Design Thinking and Lean UX workshop - Ideation and Concept Development
- Afternoon Session (13:15-17:00)
  - Design Thinking and Lean UX workshop – Starting group projects guided by facilitators, meetings with experts
- Networking & Social activities

Day 3 - Cyber & Agile
- Morning Session (9:00-12:15)
  - Introduction to Agile (Scrum Methodology)
  - Potential Agile adoptions in problem solving
- Afternoon Session (13:15-17:00)
  - Group projects, guided by facilitators, meetings with experts and team mentors
- Networking & Social activities

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Day 4 - Demo & Industry Engagement
- Morning Session (9:00-12:15)
  - Finalising projects, preparing presentations
- Afternoon Session (13:15-17:00)
  - Demo Day – Participants present their solutions to a panel of experts, feedback session, and closing remarks
- Travel to Riga

Day 5 - Cyber Defense & Civil Perspective
- Morning Session (9:00-12:15)
  - Cyber Defense & Civil Perspective - Integration and Perspective
- Afternoon Session (13:15-17:00)
  - Workshops, guided by facilitators from RTU
  - Visit to LVRTC Data centers in Lucavsala, bird's-flight view to Riga
- Closing remarks in LVRT Data Center

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Practical Info

Fees, Travel and Accommodation

FEES

EUR 650 regular participants
EUR 325 partners (RTU and Magnetic Professional)

The fees cover

- Lunch, coffee-breaks included
- Travel to and from Liepaja
- Breakfast in Riga, Liepaja
- Kitchenette available in Riga

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TRAVEL & ACCOMMODATION

The participants are expected to be in Riga on July 7 (at 19:00 the informal introduction starts)

Accommodation

July 7 - 8: Riga

July 8 around 17:00: travel to Liepaja, bus organised

July 8 - 11: Liepaja

July 11 around 17:00: travel to Liepaja, bus organised

July 11 - 12: Riga

Riga (RTU Kipsala Campus Dormitory, Azenes street 6)

Liepaja (Liva Hotel)

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ACCOMMODATION

The participants are expected to be in Riga on July 7 (at 19:00 the informal introduction starts)

Accommodation

July 7 - 8: Riga

July 8 - 11: Liepaja

July 11 - 12: Riga

Liepaja (Liva Hotel) per day
EUR 15 triple room
EUR 20 double room
EUR 31 single room

Riga (RTU Kipsala Campus Dormitory, Azenes street 6) per day
EUR 22.5 double room in 3 rooms' apartment
EUR 35 single room in 3 rooms' apartment
EUR 27.5 double room in Studio
EUR 45 single room in Studio

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ACCOMMODATION

Participants will be asked to fill-in questionnaires on their preferences of:
- Accommodation
- Dietary requirements
- Contact persons in case of emergency, etc.

Participants will register in the form provided by the organisers
The list of participants and their distribution among the room will sent to the hotels
Each participant will pay upon the arrival

CERTIFICATE

After the completion of Summer School participants are granted a certificate of attendance including the specific topics and work hours of the summer school

MAGNETIC PROFESSIONAL
MĀCĪBU CENTRS MP

eit Digital

Co-funded by the European Union

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RTU SCIENCE AND INNOVATION CENTRE

Q&A

Application Deadline June 10, 2024

Apply

ej.uz/CSSS

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