




**SPECTRO**  
SPecialised Education programmes  
in CybersecuRiTty and Robotics



 [28digital.eu/eu-collaborations/spectro/](https://28digital.eu/eu-collaborations/spectro/)

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## Key Facts

**Duration:** 2023 – 2027

**EU Contribution:** € 4.998.975,80

**Programme:** Digital Europe Programme

## The Consortium

**Coordinator:** 28DIGITAL

**Partners:** A consortium consisting of 12 higher education institutions from 7 different countries, 2 innovative SMEs, and 1 leading research centre in Information Systems.

## The Challenge

Europe faces a significant shortage of skilled professionals in two key digital technology areas critical for its future competitiveness and security: Cybersecurity and Robotics. Traditional education programmes often lack the specialisation, practical orientation, and interdisciplinary approach (including innovation and entrepreneurship) needed to bridge this skills gap.

SPECTRO's primary objective is to address this challenge by designing and delivering two double-degree master's programmes (ISCED Level 7, 120 ECTS) and a suite of self-standing online learning modules in Cybersecurity and Robotics.

## The Mission

The project's mission is to create a sustainable, high-quality educational ecosystem that equips students with deep technical expertise complemented by innovation and entrepreneurial skills. Its core approach is built on three integrated pillars: Low-level Zero-Trust Network Access (ZTNA) layer – Securing network connectivity.

- **Two Double-Degree Master's Programmes:** Each programme is 120 ECTS and includes a minor in Innovation and Entrepreneurship. Students will study at two European universities and graduate with two degrees.
- **Self-Standing Online Modules:** A flexible, self-paced learning experience designed by leading experts. Learners can take individual modules for a certificate, or complete a curated set to earn a Basics or Advanced certification in Robotics or Cybersecurity. Courses are hosted on the SPECTRO online learning platform (powered by Icarus).
- **Generous Scholarship Programme:** Financial support to promote diversity in terms of gender, age, social and economic background. Scholarships include:
  - Scholarships of excellence (full tuition waiver + monthly allowance)
  - Full tuition fee waivers
  - Half tuition fee waivers

## The Impact

### Two Specialised Master's Programmes

- **Cybersecurity Master:** Covering topics from cryptography and network security to ethical hacking, malware analysis, and post-quantum cryptography.
- **Autonomous Systems and Intelligent Robots Master:** Covering topics from industrial and mobile robotics to AI for robots, autonomous systems, and robotics in healthcare and agriculture.

### Flexible Online Learning Modules

- Certification schemes: Basic level & Advanced level
- Self-paced modules
- 13 Cybersecurity courses, 10 Robotics courses, 5 Innovation & Entrepreneurship and Ethics Courses



Funded by  
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