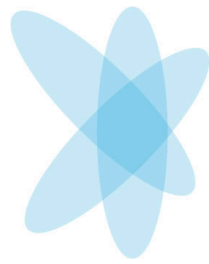


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QUANTUM+

Uncovering technology for business

QUANTUM+ Project

Newsletter #2

Quantum+ is an Erasmus+ EU funded collaborative project between industry and universities to develop a new quantum technology online training pathway. Its goal is to adapt to the growing need for trained target group and technology-industry personnel by giving them a study course in quantum fundamentals and applications, thereby improving employability and equipping them to tackle future technological problems.

Project Outputs



Design and implement a specialized curriculum focused on real-world applications



Offer engaging training materials to support effective learning for students and professionals



Launch a pilot program and raise awareness about transformative potential of quantum technologies in their operations

Online Monthly Meetings

- Introducing Micro Pills for curriculum development.
- Process to disseminating Micro Pills to all partners.
- Discussing and developing online training course contents for approval.

Project News

- [Shaping Europe Quantum Talent, Inside the QUANTUM Plus Project](#)
- [Second Quantum+ Consortium Meeting in Bilbao](#)
- [Introducing Quantum+ to Shape the Future of Quantum Technologies](#)

Project Progress

Brief Summary of Stakeholders Focus Group Survey

Building on our commitment to developing meaningful quantum education, the Quantum+ team undertook a series of stakeholder focus groups in Finland, Greece, Italy and Spain that directly feed into our aim of creating a practice-oriented, accessible, and adaptable curriculum that connects emerging technologies to concrete industry needs.

Key findings:

- Academia was stressing the requirement of quantum foundations along with useful tools.
- Industry emphasized hybrid quantum-classical methods, error correction, and business-focused applications.
- Both reports called for more interdisciplinary training, open to both STEM and non-STEM students, to keep pace with the evolving needs of quantum ecosystems.

Running Action: Developing the Quantum+ Curriculum

Building on the findings from surveys and focus groups, we've entered the next critical phase of the Quantum+ project — curriculum development. Our course framework is being designed to bridge theory and practice while remaining adaptable to future trends.

Curriculum Priorities:

- Core modules include quantum technology, quantum mechanics, quantum computing, programming, and optimization.
- Applied learning focuses on industry case studies, lab simulations, and virtual environments.
- Collaborative elements like guest lectures, industrial PhDs, internship, and proof-of-concept projects.

Objective:

- Our vision is to equip students with the capability to innovate and apply quantum solutions in research and industry by balancing theoretical education with real-world experiences.

Curriculum Innovation through "Micro Pills"

Drawing on stakeholders feedback, we are developing a micro pills-based modular system, delivering personalized, scalable education. These micro pills are short intensive learning pills aimed to build quantum competencies in technology and business fields.

Highlights from the micro pills:

- Tie together both technical topics (quantum programming, algorithms, cryptography, sensing) and interdisciplinary subjects (ethics, business models, communication).
- Designed especially for beginners.
- Add real-life examples, simulations, and industry tools like IBM Quantum, Qiskit, and AWS Braket.

Target:

- To create a lifelong learning culture that supports students, researchers, and professionals to stay ahead of quantum innovation waves.

Looking ahead:

Our upcoming milestones are:

- Completing the entire micro pills curriculum bundle.
- Launching a beta release of the online course to a pilot group of learners.
- Organizing Quantum+ Experience Days with the help of partner universities and industry mentors.

For more information visit our website:

Website

Thanks for reading. See you soon!

QUANTUM +



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