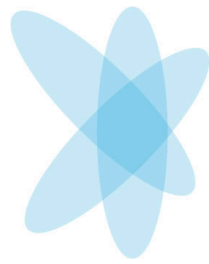


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QUANTUM+

Uncovering technology for business

QUANTUM+ Project

Newsletter #6

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.

Hello Quantum+ community!

With this sixth edition of the Quantum+ newsletter, we mark a meaningful milestone: the project has now reached its 18th month — the midpoint of our journey, and arguably the most critical phase of the entire development process, where the theoretical foundations we have built are now taking shape as tangible learning experiences. This edition features our most recent achievements in developing our curriculum and results of the fourth meeting of our consortium held in Brescia.

Results and Progress Update

Theoretical Learning Content (Micro Pills)

The creation of the Quantum+ theoretical micro-pills, which are concise learning modules aimed at creating quantum capabilities from both the technical and business sides, is advancing strongly. To date, 79 pills have been completed in their first draft, and all partners are currently working on the second draft in accordance with Rise 360 platform requirements. The rest of the micro-pills are currently being created and will be presented in the coming weeks.

During the last meeting held in Brescia, the reviewed modules were analyzed through a cooperative process by all the partners involved. The established work process indicates that once the lessons have been created,

they will first be published on the Moodle site for testing purposes, then improved using the feedback received, and finally validated.

Quantum Laboratories (QLabs)

With respect to the Quantum+ initiative, a total number of 10 Q Labs are expected to be introduced. These Q Labs include 2 laboratories that would be done physically along with another 8 online laboratories in support of the theory part.

The full list of planned labs is as follows. Ten labs are organised across three areas, each worth 1 ECTS (10 hours of lab work plus 15 hours of independent study), mostly online, with two hands-on labs hosted at the i-LAMP optics laboratory in Brescia:

Area 01 — Quantum Computing

Lab 1: Introduction to Qiskit
Lab 2: Qiskit Intermediate
Lab 3: Quantum Algorithms
Lab 4: Finance & Industry

Area 02 — Fundamental Principles

Lab 5: Quantum Measurements
Lab 6: Quantum Optics Simulator
Lab 7: Quantum Game · QTris

Area 03 — Quantum Communication

Lab 8: BB84 Protocol
Lab 9: BB84 Hands-on (in-person)
Lab 10: Quantum Optics (in-person)

Online Lessons

The partner Skills Divers has achieved much success in developing online lessons. To date, 8 online lessons have been created. As these lessons are still being finalized, direct links will be shared once the content has been fully validated and officially released. Please stay tuned for updates in our next newsletter.

Spotlight on Quantum+

We are proud to announce that the micro pills lesson and Quantum training lab development program are running successfully. It's a comprehensive, future-ready learning framework designed to bridge the gap between academia and industry in the rapidly growing field of Quantum Technologies.

Consortium Meetings Overview

Following the establishment of the Quantum+ initiative, the group has already managed to convene four successful meetings, which included both

virtual and physical components, all of which contributed significantly to achieving the project's goals.

- Online Meeting: 16 October 2024 (Zoom)
- Kick-Off Meeting: 20–21 November 2024, University of Vaasa, Finland
- Second Meeting: 2–3 April 2025, GAIA offices, Bilbao, Spain
- Third Meeting: 21–22 October 2025, PwC Technology & Innovation Hub, Patras, Greece
- Fourth Meeting: 26–27 May 2026, Università Cattolica del Sacro Cuore, Brescia, Italy.

These meetings have been essential to maintaining forward movement and ensuring that all project outputs have developed coherently within the international partnership.

Consortium Meeting in Brescia, Italy

The Quantum+ consortium recently convened in Brescia, Italy, for a productive coordination meeting hosted by our local partner. During the meeting, partners:

- Presented all WP current work and plan to achieve MS2
- Reviewed progress on all ongoing work packages
- Finalized micro pills lesson work-flow process
- Visited Università Cattolica del Sacro Cuore Quantum Lab to see development

The meeting in Brescia underscored the excellent collaboration within the consortium and the shared commitment to pushing Quantum+ towards its next milestones.



Looking Ahead

The Quantum+ project is progressing with strong momentum. With the curriculum nearing completion and a rich programme of events underway, we are well-positioned to achieve our upcoming milestones. We look forward to sharing further updates, pilot results, and community feedback in our next newsletter.

If you have suggestions, wish to collaborate, or would like to learn more about Quantum+ and its training offerings, we warmly invite you to get in touch with us.

For more information visit our website:

[Website](#)

Thanks for reading. See you soon!

QUANTUM+ Team



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