qp-tech.edu at Paderborn University

Industry Training for Platform-Independent and Photonic Quantum Computing

About the Program

Funded by the Federal Ministry of Education and Research (BMBF) of Germany, the qp-tech.edu project at Paderborn University will provide a set of online learning modules aimed at industry in quantum computing technologies. The modules will be free of charge, available through the qp-tech.edu consortium's project website (see below for registration information). They will aim to be accessible to industry members with a range of possible backgrounds and comfort levels in quantum computing. Topics will include quantum computing (particularly from a Computer Science perspective) in the areas of theoretical computer science, software engineering, and security. To complement this online content, live workshops will be offered to industry members either online or on-site.

Duration

Posting videos of the learning program will take place throughout the period from April 2023 until April 2024.

Registration and Access to Modules

To access our learning material, please register as follows:

- Please register with "https://kurs.uni-jena.de".

- Please subscribe to the "qp-tech.edu: Events" course at "https://kurs.uni-jena.de/course/view.php?id=153" to automatically be enrolled in all qp-tech.edu courses.

- You can find our first module "Introduction to Quantum Concepts in Computer Science" under "Quantum Computing and Simulation".

- The next modules will be posted later. Please see the tentative program plan on the next page.

Lecturer

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Tentative Program Plan

Modules	Content			Posting Time	Place
Module 1	posted			April – July, 2023	Online: https://kurs.uni-jena.de/login/index.php
Module 2	Micromodules	Content	Planned Posting Time	October – December, 2023	Online: https://kurs.uni-jena.de/login/index.php
	Micromodule 6	Introduction to Quantum Computing II	October 2023		
	Micromodule 7	Quantum Machine Learning	October 2023		
	Micromodule 8	Variational Quantum Algorithms VQA	November 2023		
	Micromodule 9	Qunatum Compuing and Security II	December 2023		
	Micromodule 10	Quantum Computing Software Development KITS II	December 2023		
Module 3	To be announced…			January – April, 2024	Online: https://kurs.uni-jena.de/login/index.php