



SPECIALIZATION COURSE IN QUANTUM TECHNOLOGIES

Academic Year 2021/2022

SPECIALIZATION COURSE IN QUANTUM TECHNOLOGIES

DIPARTIMENT OF SCIENCE AND HIGH TECHNOLOGY

Course location: via Valleggio 11, Como, Italy

COURSE DESCRIPTION

The specialization course in Quantum Technologies is an interdisciplinary thematic course that complements the Master Courses in Physics, Mathematics, Computer Science, Chemistry, Biology, Engineering, enriching the curriculum with transversal skills, addressed in a multidisciplinary and innovative way. The specialization course aims to provide students of science degrees and workers in industry with the appropriate tools to address the new scenarios opened by quantum technologies. The course is open to students of the University of Insubria and students from other institutions universities as well as to staff of companies interested in quantum technologies.

COURSE PROGRAM

Number of total class hours: 204

The specialization course, delivered in English, will consist of four courses:

- Quantum computing (7 CFU)
- Classical and quantum simulation of quantum systems (6 CFU)
- Classical and quantum machine learning (6 CFU)
- Quantum optics for quantum information (6 CFU)

Total number of CFUs: 25

Minimum number of hours of attendance to access the exam for each course: 75%

CALENDAR

Scheduled start date: January 24th, 2022

Scheduled end date: June 24th, 2022

The courses may be attended remotely, except for the laboratory modules, for which attendance will be required.

It is also possible to attend single courses.

COURSE ADMISSION

Minimum number of attendees: 24



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Maximum number of attendees: 75

Admission requirements: bachelor degree or master degree

ENROLMENT DEADLINE: November 30th, 2021, h. 12.00

REGISTRATION FEE

Registration fee: € 1,000.00 (inclusive of € 16.00 revenue stamp and € 7.38 for accident insurance)

Reduced registration fee for students from other universities and Insubria graduates: € 500.00 (inclusive of € 16.00 revenue stamp and € 7.38 for accident insurance).

Reduced registration for students currently enrolled in Master's degree courses at Università dell'Insubria or graduating students in a Bachelor degree program at Università dell'Insubria: € 0.00 but it is mandatory to pay:

a revenue stamp of € 16.00;

accident insurance of € 7.38

Registration to single courses is allowed at a cost of 25% of the registration fee.

ENROLMENT INSTRUCTIONS see attached file at <https://www.uninsubria.it/postlauream/corso-di-perfezionamento-%E2%80%9Cquantum-technologies%E2%80%9D>

ATTAINMENT OF THE DEGREE

Students must pay the amount of € 32.00 for the necessary revenue stamps (€ 16.00 “request” + € 16.00 “certificate of attendance”)

INFORMATION

For enrolment information: Ufficio Post Lauream: master.ateneo@uninsubria.it

For information on the organization and contents of the course: Prof. Giuliano Benenti: giuliano.benenti@uninsubria.it