

QUANT-401

**Project in quantum science I**

Profs divers \*

Cursus	Sem.	Type
Quantum Science and Engineering	MA1, MA2, MA3, MA4	Obl.

Language of teaching	English
Credits	8
Withdrawal Session	Unauthorized Winter, Summer
Semester Exam	Fall During the semester
Workload Weeks	240h 14
<b>Hours</b>	<b>8 weekly</b>
Project	8 weekly
<b>Number of positions</b>	

**Remark**

The project can be done in MA1, MA2 or MA3

**Summary**

The student applies the acquired skills to an academic project.

**Content**

Students are required to realize an engineering project integrating several aspects of Quantum Science and Engineering in a broad sense. This project will allow them to apply their technical and transversal skills acquired during their studies. The list of labs where students can search for a project is available on the web site of SIQ. This project could be carried out in groups of 2 or 3 students (upon approval of the supervisor)

**Learning Outcomes**

By the end of the course, the student must be able to:

- Manage a research project
- Apply the competences to a specific subject
- Assess / Evaluate the results critically
- Compose the project in written form in a scientific report
- Develop expertise in a specific area of research
- Represent data in a consistent and efficient way

**Transversal skills**

- Access and evaluate appropriate sources of information.
- Collect data.
- Write a literature review which assesses the state of the art.
- Write a scientific or technical report.
- Communicate effectively, being understood, including across different languages and cultures.

**Assessment methods**

Autumn : The written report must be returned to the laboratory no later than **the Friday of the second week** after the

end of classes.

Spring : The written report must be returned to the laboratory no later than **the Friday of the first week** after the end of classes.