MSc Quantum Information Science & Technology

1st year

1st PERIOD
- Orientation Team Project QIST4200
  5 EC
- Homologation QIST4400
  10 EC

2nd PERIOD
- Quantum Devices and Interfaces QIST4330
  3 EC
- Fundamentals of Quantum Information QIST4310
  4 EC
- Qubit Dynamics and Quantum Control QIST4320
  4 EC
- Quantum Computation and Quantum Programming QIST4300
  4 EC

3rd PERIOD
- Quantum Computer Architectures QIST4400
  5 EC
- Profile courses and Electives
  25 EC

4th PERIOD
- Equip the QIST professional - QIST4000
  1 EC

Legend
- Homologation
- Core Courses
- Electives
- Project work
- EC: European Credit

2nd year

1st PERIOD
- Master Thesis or Project QIST5000
  44 EC
  + 14 EC business / entrepreneurship courses

2nd PERIOD
- Master Thesis Project QIST5010
  30 EC

3rd PERIOD
- 4th PERIOD

Legend
- Homologation
- Core Courses
- Electives
- Project work
- EC: European Credit

General information

www.qist.msc.tudelft.nl

Digital study guide
For programme details, courses and course details.
studyguide.tudelft.nl

Timetables
Timetables for courses and for the programme.
mytimetable.tudelft.nl
https://rooster.universiteitleiden.nl/schedule

Brightspace
Brightspace is TU Delft’s digital learning and education environment for students and staff. There is a Brightspace page for every course, but also for the master Chemical Engineering programme.
brightspace.tudelft.nl

Register for examinations
Written examinations require registration! You have to register using Osiris. There are strict deadlines.
my.tudelft.nl
examdesk.tudelft.nl

Regulations
The regulations inform you about your rights and obligations.
tnw.tudelft.nl/regulations

Faculty student portal
tudelft.nl/en/student/faculties/as-student-portal/

E-service
For questions regarding (reactivation of) NetID.
e-service.tudelft.nl

Student association
The ASAP dispute of the VvTP welcomes QIST students.
https://asap.tudelft.nl/

"De Leidsche Flesch" is the study association for Physics, Astronomy, Mathematics and Computer Science students, which also welcomes QIST students.
https://www.deleidscheflesch.nl/en/

Programme team

Faculty of Applied Sciences, Lorentzweg 1

Programme director
Miriam Blauuboer has final responsibility for the MSc-programme Quantum Information Science and Technology.
info-MSc-QIST@tudelft.nl
m.blauboer@tudelft.nl

Programme coordinator
Eva de Haan supervises the daily routine of the programme, manages the daily matters of the programme and answers questions regarding organisational and course-related issues.
info-MSc-QIST@tudelft.nl

Academic counsellor
Nynke Penninga will advise you on all kinds of study-related matters, including personal problems.
admissionscounsellor-QIST@tudelft.nl
015-2785516

Study Programme Administration
Do you have questions about the registration of your results in Osiris, please contact
spa-tnw@tudelft.nl
+31(0)15 27 89826

Board of Examiners
The Board of Examiners is responsible for the assessment quality and the degree audits. You can also submit exception requests to the Board of Examiners.
boardofexaminers-qist-as@tudelft.nl

Board of Studies
The Board of Studies is an advisory body representing students and lecturers, and plays an important role in the quality of the programme. If you have any comments or concerns regarding this, please send an email to:
boardofstudies-qist-as@tudelft.nl
Academic skills in QIST courses

At the QIST programme, you will gain many (academic) skills. Below you find an overview of what skills are taught where in the programme.

### YEAR 1
- Orientation Team Project (QIST4200)
- Homologation (QIST4100)
- Quantum Devices and Interfaces (QIST4330)
- Fundamentals of Quantum Information (QIST4310)
- Qubit Dynamics and Quantum Control (QIST4300)
- Quantum Computation and Quantum Programming (QIST4320)
- Equipping the QIST professional (portfolio) (QIST4000)
- Quantum Computer Architecture (QIST4400)

### YEAR 2
- Multidisciplinary Team Project (QIST4500)
- Master Thesis Project (QIST5000)

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### QIST related events

There are several events held for QIST students throughout the year, by programme management, QuTech, and other departments of both universities. We recommend you to keep an eye on the Master Quantum Information Science and Technology page on Brightspace. The study associations for QIST, which are the master dispute ASAP in Delft and De Leidsche Flesch in Leiden, host various events as well. Make sure you subscribe to all relevant channels to stay up to date! You can find both universities and study associations on social media.

- **Master Information Meeting**
  - Meeting with the Director of Studies and programme coordinator to keep you up to date with all study related news.

- **Quantum Tea Break**
  - Get all the latest news on all things Quantum: Research, Developments, Reflection.

- **Career Events**
  - At TU Delft, there are various events such as 'De Delftse Bedrijvendagen' and the Global Entrepreneurship Week, as well as career oriented events hosted by the ASAP master dispute. In Leiden, there is a Leiden University Career Week and the 'Betabanenmarkt'.

- **Career Services**
  - The **TU Delft Career Centre** and **Leiden University Career Services** offer consultations, workshops and advice for students and alumni.

### Science Skills Platform

The Science Skills Platform was created to help students graduate more competent. It supports students in their (academic) development as well as their preparation for the job market. Using a wide range of skill modules, the platform allows students to develop their skills flexibly and according to their own needs. Each module is composed of four parts that allow students to learn a sub-skill (theory), practice (practice), apply (how to) and assess (checklist).

[https://www.staff.universiteitleiden.nl/vr/science/education-at-faculty-of-science/e-learning-skills-platform](https://www.staff.universiteitleiden.nl/vr/science/education-at-faculty-of-science/e-learning-skills-platform)

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### Study Associations

QIST students can become a member of study associations at both TU Delft and Leiden University for a joint fee. In Delft, this is the VvTP, with the master dispute called ASAP. In Leiden, this is De Leidsche Flesch. They both host many activities both social and career oriented. Become a member and stay up to date with their activities.