BSc in Science and Technology
Quantum Technology

School of Science and School of Electrical Engineering
Aalto University
Structure of the BSc

Basic studies 65cr
- Math: 25cr
- Programming/IT: 25cr
- General studies: 10cr
- Entrepreneurship: 5cr

Major studies 65cr
- Compulsory studies: 45cr
- Optional courses: 10cr
- BSc thesis: 10cr

Minor 20-25cr

Electives 25-30cr
# Quantum technology - timetable

**Year 1**

**Autumn**
- MS-A0111  Diff & int calculus 1
- MS-A0011  Matrix algebra
- CS-A1110  Programming 1
- New  Intro for BSc students
- TU-A1300  Industrial eng manag.

**Spring**
- MS-A0502  Probability & statistics
- MS-A0211  Diff & int calculus 2
- MS-A0311  Diff & int calculus 3
- CS-A1120  Programming 2
- Electromagnetism
- New  Quantum materials

**Year 2**

**Autumn**
- MS-C1350  Part diff eqs
- CS-A1140  Data struct & algorith
- PHYS-E0413  Theoretical mechanics
- PHYS-C0210  Quantum mechanics
- Language course
- Minor/elective

**Spring**
- CS-A2120  Programming studio 2
- PHYS-C0220  Thermo & stat mech
- New  Quantum info
- Major optional
- Minor/elective

**Year 3**

**Autumn**
- CS-A1150  Databases
- New  Quantum labs
- Major optional
- Minor/elective
- Minor/elective
- Minor/elective
- New  Quantum materials
- Minor/elective
- Minor/elective
- Minor/elective

**Spring**
- BSc thesis
- Minor/elective
- Minor/elective
- Minor/elective
- Minor/elective
## Major optional studies – choose 10 cr

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*Courses from the Finnish BSc program can also be selected*