

FACULTY OF SCIENCE

DEPARTMENT OF PHYSICS

QUANTUM TECHNOLOGIES

Master of Science in Quantum Technologies
Postgraduate Diploma in Quantum Technologies
Postgraduate Certificate in Quantum Technologies

These regulations are to be read in conjunction with [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).

Admission

1. Notwithstanding the [General Academic Regulations - Postgraduate Taught Degree Programme Level](#), applicants shall possess:
 - i. a degree (or, in the case of direct entry to the degree of MSc, a first or second class Honours degree) from a United Kingdom University (in an appropriate discipline); or
 - ii. a qualification deemed by the Programme Director (or nominees) acting on behalf of Senate to be equivalent to (i) above. This may include a requirement for appropriate industrial experience.
2. Applicants may be required to attend an interview.

Place of Study

3. Some individual research projects may require off-campus work.

Mode of Study

4. The programmes are available by full-time and part-time study.

Curriculum

5. All students shall undertake an approved curriculum as follows:
 - i. for the Postgraduate Certificate no fewer than 60 credits
 - ii. for the Postgraduate Diploma no fewer than 120 credits
 - iii. for the degree of MSc no fewer than 180 credits including a project.

Compulsory Modules

Module Code	Module Title	Level	Credits
PH949	Physics Skills	5	20
PH988	Topics in Quantum Physics	5	20
PH562	Advanced Topics in Quantum Optics	5	20
PH913	Advanced Topics in Quantum Physics - Quantum Technologies	5	20
PH957	Topics in Photonics	5	20

20 credits chosen from list of option modules:

Optional Modules

Module Code	Module Title	Level	Credits
PH955	Advanced Nanoscience 1	5	20
PH956	Advanced Nanoscience 2	5	20
PH968	Experimental Laboratories	5	20
PH459	Topics in Atomic, Molecular and Nuclear Physics	4	20
PH510	Advanced Computational Physics	5	20

Students for the degree of MSc only:

Module Code	Module Title	Level	Credits
PH952	Project	5	60

Such other Level 5 modules as may be approved by the Programme Director to bring the total number of Level 5 modules to at least 150.

Not all optional modules on this list will be available in each academic year. Please check your programme handbook for confirmation of which optional modules will run.

Examination, Progress and Final Assessment

6. See [General Academic Regulations - Postgraduate Taught Degree Programme Level](#).
7. The final award will be based on performance in the examinations, coursework and the project.

Award

8. **Degree of MSc:** In order to qualify for the award of the degree of MSc in Quantum Technologies, a candidate must have accumulated no fewer than 180 credits of which 60 must have been awarded in respect of the project PH952.
9. **Postgraduate Diploma:** In order to qualify for the award of the Postgraduate Diploma in Quantum Technologies, a candidate must have accumulated no fewer than 120 credits from the modules of the programme.
10. **Postgraduate Certificate:** In order to qualify for the award of the Postgraduate Certificate in Quantum Technologies, a candidate must have accumulated no fewer than 60 credits from the modules of the programme.