

# FACULTY OF SCIENCE

## DEPARTMENT OF PHYSICS

### PHOTONICS

**Master of Science in Photonics**  
**Postgraduate Diploma in Photonics**  
**Postgraduate Certificate in Photonics**

*These regulations are to be read in conjunction with the [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 Module**

Module Code	Module Title	Level	Credits
PH949	Physics Skills	5	20
PH957	Topics in Photonics	5	20
PH963	Advanced Photonic Devices	5	20

#### **Optional Modules**

No fewer than 60 credits chosen from:

Module Code	Module Title	Level	Credits
PH953	Introductory Nanoscience	5	20
PH955	Advanced Nanoscience 1	5	20
PH956	Advanced Nanoscience 2	5	20
PH958	Optical Design	5	20
PH960	Advanced Topics in Photonics	5	20
PH962	Photonic Materials and Devices	5	20
PH967	Computational Physics	5	20
PH968	Experimental Laboratories	5	20
PH562	Advanced Topics in Quantum Optics	5	20
PH551	Research Skills	5	20
EE473	Photonic Systems	4	20
EE972	Control Principles	5	20

Such other modules as may be approved by the Adviser of Study 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.

**Students for the degree of MSc only:**

Module Code	Module Title	Level	Credits
PH952	Project	5	60

**Examination, Progress and Final Assessment**

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

**Award**

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

10. **Postgraduate Certificate:** In order to qualify for the award of the Postgraduate Certificate in Photonics, a candidate must have accumulated no fewer than 60 credits from the taught modules of the programme.