4.2.2.1 Master of Science in Applied Physics (Full-Time and Part-Time)

The Master of Science in Applied Physics is a coursework programme initiated as a part-time programme in July 2002. It can be enrolled on a full-time basis now.

Programme Objectives

- Advanced training in Applied Physics (especially in semiconductor manufacturing, photonics and biophysics).
- Opportunities for Physics graduates and other professionals who have relevant working experience, to upgrade their professional skills and qualifications, or to switch to the hi-tech industry.

Admission Requirements

- An Honours degree in Physics or an equivalent qualification approved by NUS, or
- A Bachelor’s pass degree in Physics or related discipline, or
- Completed three years of Physics study in a university with a minimum Cumulated Average Point (CAP) of 3.00.

Programme Structure

A candidate in the MSc Programme in Applied Physics by coursework must complete the following in order to be awarded the MSc degree:

**Track 1**: 40 modular-credit programme (for applicants who have an Honours degree or equivalent qualifications)

EITHER

1. Read and pass four PC level 5000 modules (excluding PC5198) amounting to 16 MCs. Subject to approval, students are allowed to choose not more than 12 MCs from Level 5000 modules offered by other Departments.
2. Read and pass two PC level 4000 modules amounting to 8 MCs
3. Complete a research project PC5289 equivalent to 16 MCs
4. Obtain a minimum Cumulative Average Point (CAP) of 3.00

OR

1. Read and pass seven PC level 5000 modules (excluding PC5198) amounting to 28 MCs. Subject to approval, students are allowed to choose not more than 12 MCs from Level 5000 modules offered by other Departments.
2. Read and pass three PC level 4000 modules amounting to 12 MCs.
3. Obtain a minimum Cumulative Average Point (CAP) of 3.00

**Track 2**: 80 modular-credit programme (for applicants who have a Bachelor’s pass degree or completed a three-year study in Physics or related discipline)

EITHER
1. Read and pass five PC level 5000 modules (excluding PC5198) amounting to 20 MCs. Subject to approval, students are allowed to choose not more than 12 MCs from Level 5000 modules offered by other Departments.
2. Read and pass six PC level 4000 modules amounting to 24 MCs
3. Read and pass one PC level 4000 module or PC level 5000 module amounting to 4 MCs
4. Read and pass four PC level 3000 modules amounting to 16 MCs
5. Complete a research project PC5289 equivalent to 16 MCs
6. Obtain a minimum Cumulative Average Point (CAP) of 3.00

OR

1. Read and pass six PC level 5000 modules (excluding PC5198) amounting to 24 MCs. Subject to approval, students are allowed to choose not more than 12 MCs from Level 5000 modules offered by other Departments.
2. Read and pass eight PC level 4000 modules amounting to 32 MCs
3. Read and pass two PC level 4000 modules or PC level 5000 modules amounting to 8 MCs
4. Read and pass four PC level 3000 modules amounting to 16 MCs
5. Obtain a minimum Cumulative Average Point (CAP) of 3.00

**Period of Candidature**

The programmes may be undertaken over a period of two to eight semesters for Track 1 or four to ten semesters for Track 2, and will comprise of coursework or coursework and a written report based on project work. Some classes will be conducted during the university semesters in the evening.

**Programme Intake**

There are two intakes per academic year: one in January and the other in August.