NUS National University of Singapore | Faculty of Science

MASTER OF SCIENCE IN PHYSICS FOR TECHNOLOGY

OVERVIEW

The NUS Master of Science in Physics for Technology (MPT) is a multidisciplinary programme that offers the knowledge in physics, photonics, electronics, materials science, and computing with a practical orientation to solve problems in high technology.

The MPT aims to equip high-technology R&D professionals and fresh graduates with current knowledge and skills in scientific innovations and technology. The domain knowledge includes quantum physics, solid-state physics, photonics, electronic/optical materials and fabrication, and computational methods.

The MPT strives to shape its students with both the theoretical background necessary to approach complex problems and the practical know-how to solve these problems in quantum technology, semiconductor technology, photonic technology, and technologies for advanced materials.

FACULTY

The MPT teaching faculty is comprised of world-renown academic staff in the NUS Department of Physics, and well-experienced practitioners from the relevant industries.

CAREER OPPORTUNITIES

Career opportunities for physics technologists are available worldwide in the R&D sections of semiconductor/photonics companies, national research institutes, and research laboratories at government agencies and universities. Graduates from the MPT can also pursue higher-degree programmes such as PhD programmes.

PROGRAMME STRUCTURE AND CANDIDATURE

The MPT programme has one intake per year, with candidates joining in August. It is offered as a full-time programme and a part-time programme. For full-time students, the minimum and maximum periods of candidature are 1 year and 2 years. For part-time students, the minimum and maximum periods of candidature are 2 years and 4 years. To graduate from the MPT Programme, each candidate is required to complete 40 modular credits, comprising of four core and five elective modules.

ADMISSION REQUIREMENTS

- Bachelor's (Honours) degree or a 4-year Bachelor's degree in Physics or Applied Physics.
- Bachelor's (Honours) degree or a 4-year Bachelor's degree with a specialisation in semiconductors, electronics, photonics, or materials science may also be considered.
- A candidate whose medium of undergraduate instruction is not English are required to submit TOEFL (with the minimum score 85 for the internet-based test) or IELTS (with the minimum score 6.0) scores.
- Other relevant qualifications and achievements (optional)

TO APPLY

- Tuition fees per programme:

  Singapore Dollar 45,000 (subject to 7% GST)

- Online via NUS Graduate Admission System:

  https://inetapps.nus.edu.sg/GDA2/Home.aspx

- Application is open from 15 October 2021 to 15 March 2022 for August 2022 Intake
- Scan the QR code for detailed information about the Programme

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GRADUATE PROGRAMMES
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