2.4.1 Master of Technology

Course Objective

The Master of Technology (MTech) programme offers degrees in Enterprise Business Analytics, Intelligent Systems, IT Leadership and Software Engineering. Key elements of the MTech programme are the internship and capstone project modules. All students will undertake a team-based project or internship to acquire relevant real world experiences and gain further insights into the realities and challenges of the industry.

The MTech programme is designed to produce highly employable IT professionals and data scientists who will be comprehensively equipped with the knowledge and skills required by the local and regional industry. In addition to full-time study, they provide IT, science and engineering professionals the opportunity to upgrade their skills by studying part-time while pursuing their careers.

This programme will lead to the award of a Master’s degree by the National University of Singapore.

Admission Requirements

To gain admission to the programmes, applicants must possess the following pre-requisites:

- Bachelor’s degree preferably in Science or Engineering and a grade point average of at least B
- Proficiency in the English Language (Written and Spoken)*
- Have passed an entrance test (applicable only for EBAC/IS/SE)
- NUS-ISS may, at its discretion, accept GRE general test in lieu of NUS-ISS entrance test in genuine cases e.g. a candidate lives in a country where NUS-ISS does not administer entrance tests or candidate had valid reasons that prevented him/her from attending the NUS-ISS entrance test when it was administered
- Have received a favourable assessment at admissions interview conducted by NUS-ISS

*English Language Proficiency

- Applicants who graduated from universities where English is not the medium of instruction should submit TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing System) score as evidence of their proficiency in the English language.

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<td>Paper-based test (580)</td>
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<td>Computer-based test (237)</td>
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<td>Internet-based test (85)</td>
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<th>IELTS</th>
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- Institution code of NUS-ISS for TOEFL is 2432
• **TOEFL and IELTS are only valid for five years after the test and the validity should not expire before the beginning of the application period for the coursework programme.**

**MTech EBAC:**

- Preferably two years relevant working experience
- IT, engineering and scientific professionals would make ideal candidates
- Candidates with highly relevant degrees in Mathematics, Statistics, Econometrics, Management Science, Operational Research or similar, with consistently good academic records may be granted a work experience waiver

**MTech IS:**

- Preferably two years relevant working experience
- As an IT professional, e.g. software developer, business analyst, or as a domain expert working in an area where Knowledge Engineering can be applied
- Candidates with highly relevant IT degrees, with consistently good academic records and good practical software development knowledge gained either through course work, course projects or professional IT certifications may be granted a work experience waiver

**MTech ITL:**

- Have an equivalent of a good NUS undergraduate honours degree preferably in IT, Science, Engineering or a related discipline
- Have the following relevant work experience or equivalent:
  - A minimum of 5 years of work experience in IT management or business management
  - Experience working in major leading IT roles, such as software development, maintenance, system management etc
- Complete and upload two application essay questions given in the MTech Form

**MTech SE:**

- Preferably four years relevant working experience
- As a software engineer e.g. programmer, designer, technical team lead
- Candidates who have less than four years relevant experience with good practical software engineering knowledge gained either through course work, course projects or work experience may be considered. Have passed an entrance test administered by ISS.

**Period of Candidature**

MTech EBAC/IS/SE

The Master’s Programmes are available in full-time, part-time and stackable formats. The duration for the full-time programme is 1 year, and for the part-time programme, 2 years. The programmes are also available via the stackable pathway.

MTech ITL:
The Master’s Programme is available in full-time and part-time. The duration for the full-time programme is 1 year, and for the part-time programme, 2 years.

**Student Commitment**

**MTech EBAC/IS/SE**

Candidates must complete and pass the mandatory certificate/s from the fundamental area, any 2 certificates from the specialist areas as well as complete a capstone project.

**MTech ITL**

Candidates must complete and pass 10 compulsory core courses as well as complete a capstone project.

**Assessment/Examinations**

**MTech EBAC/IS/SE**

Students are evaluated through a combination of course work, project work and examinations. All students are required to complete a three-hour examination for each fundamental and specialist module taken.

Students who fail a module will be asked to withdraw. A minimum average grade across all examinations and practice assessments must be achieved to be awarded the degree.

**MTech ITL**

All candidates will be assessed by a combination of continuous assessment assignments, class participation and mid-term assessments, as well as the output produced for the capstone project module.

A minimum average grade across all examinations and practice assessments must be achieved to be awarded the degree.