Teaching Institutions

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1 Centre for English Language and Communication

1.1 Centre’s Commitment

1.2 Key Contact Information
1.1 Centre’s Commitment

The Centre for English Language Communication (CELC) was established in 1979. It plays a vital role in enhancing the English language and communication skills of both local and international undergraduate and graduate students at the National University of Singapore.

CELC’s mission is to empower its students to acquire effective English language and communication skills for their academic and professional lives through innovative teaching, promotion of independent learning and engagement in research related to ELT. To achieve this mission, its strategic goals are to:

- provide well designed and relevant programmes
- prepare students for the communication needs of the university and the workplace
- promote independent learning through the provision of self access learning environments
- adopt innovative teaching practices grounded in research
- design and administer effective language assessments
- enhance professional growth by keeping abreast of current developments in theory, research, pedagogy and Information Technology
- conduct classroom based research on the teaching of English and communication skills
- collaborate with departments and faculties across the university to meet students’ language and communication needs
- share expertise with ELT practitioners through publications, conferences and academic collaboration

For more information on CELC and the modules offered, please go to: [http://www.nus.edu.sg/celc](http://www.nus.edu.sg/celc)
### 1.2 Key Contact Information

For up-to-date information, please visit the Centre’s website at: [http://www.nus.edu.sg/calc](http://www.nus.edu.sg/calc)

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2 Institute of Systems Science

2.1 Programme’s Commitment

2.2 Key Contact Information

2.3 Programmes Offered

2.4 Programme Requirements

2.5 Financial Assistance and Awards
2.1 Programme’s Commitment

The Institute of Systems Science is known for its broad-based advanced professional continuing education in Information Technology specialising in Software Technology and Engineering Practice and provides industry with Strategic IT Management, e-Business and Knowledge Management expertise. It aims to deliver quality lifelong ICT learning to professionals and managers through a combination of e-Learning and classroom activities.

Its mission is to be a premier IT technology transfer institution that directly supports the national IT manpower development plan in establishing and maintaining a world class Information Communication Technology (ICT) capability in Singapore.

Established in 1981, ISS’s initial focus was on the development of a strong, cohesive, industry-oriented educational programme to help organisations accelerate their computerisation programmes.

ISS is ISO9001-certified for the provision of short courses, postgraduate programmes, consultancies and joint projects. This is further assurance of our commitment to quality and to the meeting of the stringent requirements of our customers.

Please visit the ISS website at: http://www.iss.nus.edu.sg for more details.
### 2.2 Key Contact Information

For up-to-date information, please visit the Faculty’s website at: [http://www.iss.nus.edu.sg](http://www.iss.nus.edu.sg)

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2.3 Programmes Offered

The Programme offers the following graduate degrees by coursework:

- Master of Technology (Software Engineering) [M.Tech. (SE)]
- Master of Technology (Knowledge Engineering) [M.Tech. (KE)]
- Master of Technology (Enterprise Business Analytics) [M.Tech. (EBAC)]
- Master of Technology (IT Leadership) [M.Tech. (ITL)]
- Graduate Diploma in Systems Analysis [G.Dip. (SA)]
2.4 Programme Requirements

2.4.1 Master of Technology

2.4.2 Graduate Diploma in Systems Analysis
2.4.1 Master of Technology

Course Objective

The Master of Technology is offered jointly by the Institute of Systems Science (ISS) the Faculty of Engineering (FoE) and the School of Computing (SoC) at the National University of Singapore (NUS).

This programme will lead to the award of a Masters degree by the National University of Singapore. It offers specialisation in software engineering, knowledge engineering and enterprise business analytics and is specifically designed to meet the needs of today's busy IT professionals and managers without disrupting their work and career. The curriculum emphasises understanding and exploitation of advanced technologies and management disciplines. It focuses on the practical application of innovative techniques and developing the IT professional’s capability for innovation.

Admission Requirements

To gain admission to the programme, candidates will be required to meet the following criteria:

1. Possess an undergraduate degree, preferably in Science or Engineering and a grade point average of at least B.
2. Preferably have 2 years relevant working experience.

MTech SE:

- Preferably have 2 years relevant working experience as an IT professional in software development or maintenance (e.g. programmer, designer, software project manager).
- Please note that 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 KE:

- Preferably have 2 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.
- Please note that candidates with highly relevant IT degrees, with consistently good academic records, and good practical computing knowledge gained either through course work, course projects or professional IT certifications may be granted a work experience waiver.

MTech EBAC:

- Preferably have 2 years relevant working experience. IT, engineering and scientific professionals would make ideal candidates. However, those with work experience as domain experts, working in an environment where they can apply Business Analytics, would also be acceptable candidates.
• Please note that 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 ITL:

• Possess the equivalent of a good NUS undergraduate honours degree preferably in IT, Science, Engineering or a related discipline.
• Possess 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 in software development, maintenance, system management, etc.
• Complete and upload two application essay questions given in the MTechForm (other info).

3. Have passed an entrance test administered by ISS.

• Certain candidates who possess highly relevant Honours/Masters/PhD degrees may be granted entrance test waiver after assessing their application.
• ISS may, at its discretion, accept GRE general test in lieu of ISS entrance test in genuine cases (eg: a candidate lives in a country where ISS does not administer entrance tests or candidate had valid reasons that prevented him/her from attending the ISS entrance test when it was administered.)

4. Have received a favourable assessment at an admissions interview conducted by ISS.
5. Have a high proficiency in the English language (spoken and written). International applicants who graduated from universities where English is not the medium of instruction may be asked to take TOEFL/IELTS.

• TOEFL : Paper-based test (580)
  : Computer-based test (237)
  : Internet-based test (85)]

• IELTS: Result of 6.0

Note: Institution code of NUS-ISS for TOEFL is 2432

Period of Candidature

MTech SE/KE/EBAC:

This masters programme extends over a minimum period of two and half years, and a maximum of five years of part-time study. The programme is also available on a full-time basis over a minimum period of one and half years.

MTech ITL:
This masters programme extends over a minimum period of two years, and a maximum of four years of part-time study. The programme is also available on a full-time basis over a minimum period of one year.

Student Commitment

Candidates must successfully complete the following course components to be awarded the degree:

MTech SE/KE/EBAC:

1. Core courses. Each candidate is required to pass four compulsory core courses (all conducted by ISS) in their area of specialisation (either SE, KE or EBAC).
2. Basic electives. Each candidate is required to pass eight basic elective courses (all conducted by ISS). There is no restriction on the specialisation from which these electives can be selected e.g. SE candidates can take KE electives and vice versa.
3. Advanced electives. Each candidate is required to pass three advanced elective courses, conducted by ISS, FoE or SOC. There is no restriction on the specialisation from which these electives can be selected, but candidates are typically limited to a maximum of one advanced elective conducted by ISS.
4. Project. Each candidate is required to pass a team-based application development project in their area of specialisation (either SE, KE or EBAC).

The Core and Basic Elective units require candidates to attend 20 full-day (Mon – Fri) classes (maximum of 5 full days per semester) and 60 Saturday classes (9:00am – 5:00pm).

In addition, the project will require approximately 40 days of the candidates’ own time.

For advanced elective units offered by the Faculty of Engineering or the School of Computing, candidates are required to attend 2-3 hours of lecture per week every semester. Each semester is about 12-13 weeks in duration (excluding exams).

MTech ITL:

To become MTech ITL graduates, candidates will be required to pass the 11 course modules. In addition, graduates will be required to meet the following criteria:

1. In no two consecutive semesters have a CAP of less than 2.5.
2. In no three consecutive semesters have a CAP of less than 3.0.
3. Achieve a minimum CAP of 3.0 after completing the entire programme.

Examinations

MTech SE/KE/EBAC:

A candidate is evaluated through a combination of coursework, project work and examinations. Candidates are required to complete a three hour examination for each core or elective course.
Candidates failing a core course will be asked to withdraw. Candidates must achieve a minimum average grade across all examinations to be awarded the degree. Candidates who do not fulfil the minimum requirements of the degree will be considered for the award of the postgraduate diploma.

MTech ITL:

The performance of each MTech ITL candidate will be assessed by a combination of continuous assessment assignments, class participation and mid-term assessments for all the coursework modules taken, and by assessing the output produced by the candidate for the capstone project module.

**Exemptions**

MTech SE/KE/EBAC:

Candidates may be granted exemptions for the examinations of up to four basic electives, provided they have at least the equivalent of an NUS/NTU 2nd Upper Class Honours degree, and have passed the same or similar subjects.
2.4.2 Graduate Diploma in Systems Analysis

**Course Objective**

The Graduate Diploma in Systems Analysis programme is designed for graduates who recognise the need to equip themselves with the latest IT knowledge and skills, and wish to advance their careers in their current field. It also provides an opportunity for non-IT graduates in crafting a new career path in the IT industry.

**Admission Requirements**

Applicants must possess the following pre-requisites:

- Bachelor degree from a recognised university
- Proficiency in the English Language (written and spoken)
- Some work experience preferred

All applicants are required to take an aptitude test. Shortlisted applicants will also need to attend an interview. Foreigners are welcome to apply.

**Student Commitment**

The programme is an thirteen-month full-time course consisting of two semesters and an industry attachment. Classes will be held from Mondays to Fridays, 9.00 am to 5.00 pm.

**Examinations**

To be awarded the graduate diploma, trainees must possess a satisfactory performance in continuous assessments, examinations, projects, industrial attachment and meet the minimum Cumulative Average Point (CAP) set by NUS.
2.5 Financial Assistance and Awards

The Accenture Gold Medal and Book Prize is awarded to the best student successfully completing the Master of Technology (Software Engineering) course. The SPH Gold Medal & Book Prize is awarded to the best student successfully completing the Master of Technology (Knowledge Engineering) course.

The IBM Gold Medal & Prize is awarded to the best student in the Graduate Diploma in Systems Analysis course. The ISS Prize is awarded to the student who is second in the examination. The Accenture Prize is awarded to the best internship team in the course.