MASTER OF TECHNOLOGY IN IT LEADERSHIP

Drive digital business transformation
Run a high-performing IT organisation

AGILE & CONFIDENT LEADERSHIP

www.iss.nus.edu.sg/MTechITL
A professional Master’s degree programme to prepare, develop and nurture the next generation of IT and digital leaders for Asia.

The Master of Technology in IT Leadership (MTech ITL) degree is offered by the NUS’ Institute of Systems Science (NUS-ISS). Graduates from the Master of Technology in IT Leadership programme will be awarded a Master’s degree by National University of Singapore (NUS), which has been consistently ranked among the top 15 worldwide by the Quacquarelli Symonds (QS) World University Rankings, and one of the best in Asia.

Support from the industry

“This programme is timely and serves to address the gaps of CIO development. Many of the programmes available today are either too technical or cover general management. There is a pressing need to develop a new generation of IT Leaders who are both business and technology savvy and can interact effectively with C-executives.”

Ms Rosina HOWE
Former Chief Innovation Officer & Group Director, Innovation and Infocomm Technology Group, Land Transport Authority

“The CIO is at the pinnacle of the IT profession and an aspirational target for many ICT professionals. To play this increasingly business-critical role effectively requires continuous learning and development of competencies in leadership, technology management, business acumen and societal contribution. ITMA is pleased to be a strategic partner of NUS-ISS in nurturing current and future generations of CIOs through the MTech ITL programme.”

Mr Alvin ONG
President, IT Management Association (ITMA) CIO, Nanyang Technological University

“MTech ITL will achieve the outcomes with its intensive practice orientation. The programme offers a solid foundation in digital business transformation, understanding of the interplay between IT and business, and leadership in IT. Students will be groomed to become more strategic, agile and innovative under the mentorship of industry leaders and through industry projects.”

Ms Janet ANG
Vice President, Industry Solutions, Systems of Engagement & Smarter Cities, IBM Asia Pacific

IT Management Association (ITMA) is a community of successful and forward looking IT leaders who make a difference to the IT industry in Singapore. Its mission is to harness IT Management best practices for the success of businesses, and to nurture new generations of CIOs and most of all to be the centre of excellence for IT leadership.
HOW WILL IT CHANGE YOU?

- Equips you with a sound foundation of knowledge, hard and soft skills, right mindset and capabilities to succeed
- Delivers an intensive practice-oriented education
- Fulfills the developmental needs of incumbent and aspiring IT, digital and business leaders
- Provides mentorship and interaction with practising CIOs, IT, Business and Thought leaders in collaboration with the IT Management Association of Singapore (ITMA) and the industry
- Enables a rewarding and enriching experience

WHAT IS THIS MASTER’S DEGREE ABOUT?

It is about the job of the IT and digital leader and how the role has become increasingly complex and multifaceted as the use of technology permeates through the organisation and its eco-system. New demands are mandated on today’s leaders to reap the full benefit of digital opportunities, handle the accompanying risks, challenges and uncertainties, and operate stable, mission-critical systems.

This MTech ITL programme will equip students with the critical knowledge, hard and soft skills to be a strong IT and digital leader. It will accelerate their career and enhance their ability to take on complex and greater levels of responsibility in IT and digital leadership roles. Students will be equipped with the right thinking and capabilities to ride the digital wave and lead technology value realisation in the organisation. It will also help organisations to build the next generation of IT and digital leaders.

The curriculum has been created by the NUS in consultation with foremost IT and business leaders, and will be jointly delivered by NUS and practising Chief Information Officers and IT leaders.

WHO IS IT DESIGNED FOR?

The MTech ITL programme is specially designed to prepare and nurture the next generation of IT, digital and business leaders to lead technology, integrate business, IT and digital strategies and build an agile, innovative and effective IT organisation.

- IT managers, experienced business managers and directors with IT portfolio management responsibilities who want to further build their career as IT, digital and business leaders
- Current IT leaders who wish to gain relevant academic foundation to effectively innovate, lead and execute IT and digital transformation

HOW WILL IT CHANGE YOU?

This programme has been specially designed to develop your capability and capacity and transform you to:

- Be strategic, agile, innovative and a critical thinker
- Be operationally sound and smart
- Create business value and understand financial implications
- Effectively communicate ideas and strategic business cases
- Nurture effective relationships with business partners, users and other stakeholders.
WHAT WILL YOU LEARN?

The MTech ITL programme offers an integrated and comprehensive curriculum that is based on strong academic foundation and intensive practice orientation.

THE PRACTICE OF IT AND BUSINESS
Acquire enterprise IT management, business and financial management knowledge, skills and practices so as to provide cost-efficient and effective IT services that meet enterprise objectives and generate business value.

DIGITAL BUSINESS TRANSFORMATION
Be equipped with skills, knowledge, tools and thought leadership to set vision, innovate, strategise, plan, deploy and measure digitalisation initiatives that create digitalisation value.

IT LEADERSHIP AND PEOPLE
Become IT and digital leaders with strategic and systems thinking, people, communications and team-building skills; be a role model in leading and managing change; build and lead a high-performing IT organisation; and foster appropriate stakeholder relationships.

WHAT IS THE VALUE OF THE CAPSTONE PROJECT?

The IT leadership capstone project brings together all disciplines that students have encountered in the programme. Students reflect, apply and synthesise the knowledge, skills and techniques that they have learnt in class to a real-life organisation and environment. They will integrate what they have learnt with how they, as the Digital Leader, will have to perform digital business transformation and solve real-world problems for a target organisation. Industry advisors will facilitate this process.

Students will work in groups to perform the capstone project. The student group, project scope and deliverables of the capstone will be defined before the project commences. The capstone project extends over 6 and 9 months for the full-time and part-time programmes respectively.

IL5107 IT Leadership Capstone Project

IL5101 Strategic Alignment of Business and IT
IL5102 IT Innovation Leadership
IL5103 Measuring and Demonstrating Value from IT Investments
IL5104 IT Governance and Risk Management
IL5105 Fundamentals of IT Leadership Transformation
IL5106 Leading Change for IT Leaders
IL5107 IT Organisation Development and Talent Management
IL5108 Stakeholder Relationship Management in the IT Eco-system
IL5109 Business and IT Financial Management
IL5110 Process and Operational Excellence
HOW ARE THE CLASSES RUN?

The MTech ITL programme is highly interactive. It combines lectures conducted by experienced faculty and instructors who are practicing CIOs and thought leaders or those who have previously held such positions; discussions, workshops and case studies for experiential learning; mentorship by ITMA leaders and industry practitioners; dialogues and industry round-tables; and intensive practice orientation through a capstone project.

Students will therefore benefit not just from a sound foundation of theory but also from the wealth of experience of these accomplished instructors and their interactions with them.

WHAT DO OUR STUDENTS SAY?

Our students are IT or business leaders from industries such as banking and finance, ICT, logistics, manufacturing and transport and the public sector. Hear what they have to say about their NUS-ISS experience.

I have learnt a lot from the MTech ITL programme. The different perspectives shared during class discussions are my biggest takeaways. The lecturers are very experienced leaders and their sharing often augment and bring practicality to the knowledge imparted.

Chia Yew Lee
DCO Manager,
Amazon Web Services
Current MTech ITL student

My experience with the MTech ITL programme has been great so far. The programme is well designed, which enables me to be more strategic in my approach to solve IT and digital challenges and has certainly provided me with the skills and knowledge to be a better and more effective leader. It also offers an interactive and engaging forum where we can learn from each other, as well as the lecturers through discussions, projects and case studies. Most importantly, my final capstone project allows me to think critically and apply what I have learnt to help my sponsoring organization in their digital transformation journey.

Raymond Pong
Vice President,
ICT, MSIG Holdings (Asia) Pte Ltd
Current MTech ITL student

The practice-based curriculum has a good balance, building deep leadership capabilities and functional skills. It also offers multifaceted perspectives on IT leadership through exclusive CxO conversations with thought leaders in the industry, faculty members who are practicing CIOs or those who have previously held such positions. There are insightful discussions with classmates who have had extensive work experience and such interactions are a valuable part of the learning process too.

Serena Tai
Senior Lecturer, Temasek Polytechnic
Current MTech ITL student

ARE YOU READY TO APPLY?

Applicants must satisfy the following admission criteria:

- 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.
- Demonstrate proficiency in English. Applicants whose native tongue and medium of university instruction is not in English would be required to submit the 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.
- Complete two application essay questions.
- Achieve a favourable assessment at an admissions interview conducted by NUS.

It should be noted that all decisions in the application process are at the discretion of NUS-ISS management.

Applicants must satisfy the following admission criteria:

- 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.
- Demonstrate proficiency in English. Applicants whose native tongue and medium of university instruction is not in English would be required to submit the 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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Programme Fee

**S$40,500**
For Singaporean and Singapore Permanent Resident (SPR)

**S$45,000**
For International Student

Fee includes GST. It excludes miscellaneous fees.

Apply online via the NUS Graduate Admission System (Coursework).
Scan this QR code for more details on the application process.
National University of Singapore

A leading global university centred in Asia, the National University of Singapore (NUS) is Singapore’s flagship university, which offers a global approach to education and research, with a focus on Asian perspectives and expertise.

NUS has 16 faculties and schools across three campus locations in Singapore – Kent Ridge, Bukit Timah and Outram. Its transformative education includes a broad-based curriculum underscored by multi-disciplinary courses and cross-faculty enrichment, as well as special programmes which allow students to realise their potential.

The learning experience is complemented by a vibrant residential life with avenues for artistic, cultural and sporting pursuits. Over 37,000 students from 100 countries further enrich the community with their diverse social and cultural perspectives.

NUS has three Research Centres of Excellence (RCE) and 26 university-level research institutes and centres. It is also a partner for Singapore’s fifth RCE. The University shares a close affiliation with 16 national-level research institutes and centres. Research activities are strategic and robust, and NUS is well-known for its research strengths in engineering, life sciences and biomedicine, social sciences and natural sciences. It also strives to create a supportive and innovative environment to promote creative enterprise within its community.

NUS Institute of Systems Science

Established in 1981, NUS-ISS provides graduate education, professional development courses, consultancy and research services. Its objectives are to develop infocomm and digital business leaders, to drive organisational innovation and business transformation. It delivers four Master of Technology programmes, a Graduate Diploma in Systems Analysis programme and executive education courses conducted by industry professionals with successful track records and an average of over 20 years of industry experience.

NUS-ISS has achieved ISO 29990:2010 certification, and is the first CET (Continuing Education and Training) Centre in Singapore certified for full suite of executive education courses.

To date, over 111,000 infocomm professionals, 5,800 corporate customers and 5,100 post-graduate alumni members have benefitted from NUS-ISS’ suite of services.