NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

NEWS RELEASE

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NTU Singapore launches four new Master's programmes leveraging advancements in AI

Nanyang Technological University, Singapore (NTU Singapore) is launching four new master's degree programmes in 2026 to prepare professionals for the opportunities and challenges of an AI-driven future.

The programmes are:

- **Master of Science in Artificial Intelligence in Medicine (AIMed)**,
- **Master of Arts in Digital Humanities (MADH)**,
- **Master of Science in Enterprise Artificial Intelligence (Enterprise AI),** and
- **Master of Science (Chinese Medicine).**

AIMed will train healthcare professionals, engineers and technologists to apply AI responsibly in clinical settings; MADH, the first of its kind in Singapore, will connect digital tools with humanistic inquiry to address the cultural and ethical dimensions of digitalisation; Enterprise AI will produce "AI-savvy" professionals who can translate AI potential into enterprise value; and the MSc in Chinese Medicine will advance holistic healthcare by combining traditional Chinese Medicine knowledge with modern clinical and research practices.

NTU Deputy President and Provost Professor Christian Wolfrum said: "As artificial intelligence becomes increasingly embedded in healthcare, business, and society, it is vital to prepare professionals who can harness these tools responsibly and effectively. Beyond technical know-how, graduates must understand the ethical, cultural, and clinical dimensions of AI so they can apply it in ways that truly benefit patients, enterprises, and communities.

"With NTU's strong foundation in medicine, engineering, the humanities, and professional education, we are uniquely positioned to deliver unique interdisciplinary programmes that bridge these worlds. The four new master's programmes will not only equip students with cutting-edge skills, but also foster collaborations across sectors, ensuring Singapore develops leaders who can advance innovation, strengthen public trust, and drive meaningful outcomes in an AI-driven future."

These programmes are designed to tackle pressing challenges in healthcare, business, culture, and holistic medicine, while advancing Singapore's priorities in cultivating a future-ready workforce, driving responsible AI adoption, and reinforcing the nation's standing as a trusted global hub for innovation and integrative healthcare.

Master of Science (Artificial Intelligence in Medicine)

Offered by NTU's Lee Kong Chian School of Medicine (LKCMedicine), the **Master of Science in Artificial Intelligence in Medicine (AIMed)** aims to address the urgent need for AI-literate healthcare practitioners by equipping professionals with the skills to harness AI responsibly and innovatively, always with patients' interests at heart.

This is the first postgraduate programme in Singapore to offer in-depth technical and clinical training in AI, specifically tailored to the needs of the local and regional healthcare workforce.

Students will acquire practical AI skills for healthcare and engineering applications, apply ethical and effective practices to bridge clinical expertise with AI technology, and develop interdisciplinary knowledge to drive innovation and improve patient care.

Designed at the intersection of clinical practice and AI, AIMed adopts a dual-track structure tailored to two groups: clinicians such as early- to mid-career doctors, nurses, and allied health professionals, and engineers and technologists, seeking to pivot into healthcare. Drawing on NTU's expertise in medicine, computer science, and engineering, the programme provides a strong foundation for applying AI effectively in real-world healthcare contexts.

Completable within three years, AIMed provides a flexible pathway for working professionals, from a FlexiMasters to a full Master of Science degree. Graduates will be prepared for emerging roles such as Clinical AI Specialist, Healthcare Data Scientist, AI Governance Advisor, and Chief Medical Information Officer, positioning them to drive innovation and strengthen patient care in Singapore and beyond.

Master of Arts (Digital Humanities)

The new **Master of Arts in Digital Humanities (MADH)** is Singapore's first postgraduate degree in this field, designed to equip graduates with both technological fluency and humanistic insight to address the challenges of the digital age.

Offered by the College of Humanities, Arts, and Social Sciences, students will learn to apply digital tools and methods such as AI and machine learning alongside theories and approaches from the humanities, arts, and social sciences. This interdisciplinary

training prepares them to tackle contemporary issues with a rare hybrid skillset that is highly valued across industries.

A key feature of MADH is its unique two-way approach: applying digital tools and methods to address human and social concerns, while using humanistic perspectives to shape technological innovation.

The programme builds on NTU's industry links and the expertise of its four schools — the School of Art, Design and Media, the School of Humanities, the School of Social Sciences, and the Wee Kim Wee School of Communication and Information. This synergy ensures a robust and innovative curriculum that prepares a technologically fluent, literate, and socially conscious workforce.

Open to graduates from both STEM (Science, Technology, Engineering, and Mathematics) and SHAPE (Social Sciences, Humanities, and Arts for People and the Economy) disciplines, MADH prepares students for careers in various industries including business, finance, media, education, cultural heritage, social services, and information technology, nurturing graduates who are not only technologically fluent but also attuned to the cultural, ethical, and social dimensions of digital innovation.

Master of Science (Enterprise Artificial Intelligence)

The new **Master of Science (Enterprise Artificial Intelligence)** provides students with business-centric AI skills, literacy for non-technical leaders, expertise in responsible AI governance, and AI Product Management and Applied Innovation skills.

The rise of artificial intelligence in business has created an urgent need for professionals who can bridge the gap between technology and enterprise strategy. To meet this demand, the programme focuses on applied innovation rather than purely technical training. Students will study AI product management and the use of no- and low-code platforms, preparing them to integrate AI solutions effectively within business contexts.

Offered by the NTU Academy for Professional and Continuing Education (NTU PACE), the programme combines AI knowledge with management training, to nurture a new generation of "AI-savvy" professionals who can drive enterprise transformation and ensure AI adoption delivers real value. This "bilingual" approach, fluent in both AI technology and enterprise needs, enables graduates to bridge the gap between what AI can do and what businesses achieve.

Graduates will be well prepared for roles such as Innovation or AI Consultant, AI Product Manager, Digital Transformation Strategist, AI Governance or Policy Officer, and AI Project Lead or Manager, helping companies turn AI potential into measurable outcomes.

Master of Science (Chinese Medicine)

Designed by NTU's School of Biological Sciences, the **Master of Science in Chinese Medicine**, aims to equip graduates with in-depth knowledge, clinical proficiency, and research competencies, enabling them to excel in Chinese medicine and integrative healthcare.

Students are required to complete a series of core courses covering research methodologies and the integration of classical and modern Chinese medicine theories and treatments, before specialising in gynaecology, acupuncture, or biomedical sciences. They will also undergo advanced training in clinical practice and research, with opportunities to explore the use of AI in diagnostics and its potential applications in modern healthcare.

This is the first postgraduate programme in Chinese medicine to be offered by a local university. It comes as Singapore works towards an integrated model where the strengths of both Western and Chinese medicine can be leveraged for optimal patient care.

Whether advancing patient care through clinical AI, shaping responsible digital cultures, driving enterprise transformation, or strengthening holistic healthcare, graduates of these new Master's programmes will be prepared for leadership roles in research, innovation, and practice across multiple sectors worldwide. Together with NTU's existing **Master of Science in Artificial Intelligence** and **Master of Computing in Applied Artificial Intelligence**, they will help build a workforce that supports Singapore's national priorities and NTU's role to shape a future-ready, globally relevant university.

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About Nanyang Technological University, Singapore

A research-intensive public university, Nanyang Technological University, Singapore (NTU Singapore) has 35,000 undergraduate and postgraduate students in the Business, Computing & Data Science, Engineering, Humanities, Arts, & Social Sciences, Medicine, Science, and Graduate colleges.

NTU is also home to world-renowned autonomous institutes – the National Institute of Education, S Rajaratnam School of International Studies and Singapore Centre for Environmental Life Sciences Engineering – and various leading research centres such as the Earth Observatory of Singapore, Nanyang Environment & Water Research Institute and Energy Research Institute @ NTU (ERI@N).

Under the NTU Smart Campus vision, the University harnesses the power of digital technology and tech-enabled solutions to support better learning and living experiences, the discovery of new knowledge, and the sustainability of resources.

Ranked amongst the world's top universities, the University's main campus is also frequently listed among the world's most beautiful. Known for its sustainability, NTU has achieved 100% Green Mark Platinum certification for all its eligible building projects. Apart from its main campus, NTU also has a medical campus in Novena, Singapore's healthcare district.

For more information, visit www.ntu.edu.sg