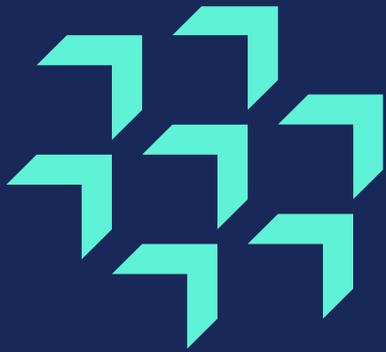


MSC



**MASTER OF
SCIENCE
IN DESIGN
AND AI FOR
ENTERPRISE
(MSC DAI-E)**

DAI —



**DESIGN. BUILD. DEPLOY.
LEAD AI SYSTEMS
THAT DELIVER REAL
ENTERPRISE IMPACT.**

E

FULL-TIME (12 MONTHS) | PART-TIME (24 MONTHS)

BEYOND AI TOOLS. DESIGN ENTERPRISE- READY AI SYSTEMS.

Artificial Intelligence (AI) is transforming industries at unprecedented speed. Organisations today need more than AI users. They need professionals who can architect, deploy, and lead AI systems responsibly at scale.

As the first Design · AI university for the new world, SUTD brings a bold integration of AI with a holistic view of design, embracing creativity, ethics, empathy and critical thinking to drive purposeful outcomes.

You will design AI systems that are not only powerful, but trustworthy. Systems that are not redundant, but deliver real organisational and industry value.

The MSc in Design and Artificial Intelligence for Enterprise (MSc DAI-E) is one of SUTD's flagship MOE-accredited postgraduate programmes. It is designed to develop technically strong, industry-ready leaders who combine deep AI expertise with enterprise deployment capability.

Unlike programmes focused purely on theory, MSc DAI-E integrates rigorous academic foundations with sustained real-world industry engagement through its defining MSc DAI-E Studio model, a year-long industry-mentored project. You will work with real datasets and operational constraints, gaining hands-on experience and actionable skills.

A STRUCTURED AND COMPREHENSIVE AI EDUCATION

The programme consists of **12 graduate-level courses**, selected from a continuously evolving bank of over 20 specialised AI and enterprise modules.

Students develop:

- Strong foundations in machine learning and deep learning
- Expertise in modern AI systems and emerging technologies
- Enterprise-focused design and deployment capability
- Awareness of governance, security, and responsible AI practice

The curriculum is built as a coherent progression, moving from technical mastery to system-level thinking and real-world implementation.

THE ONLY MOE-SUBSIDISED MASTER'S DEGREE IN AI IN SINGAPORE

MSc DAI-E is a Master's degree in Artificial Intelligence in Singapore that benefits from MOE tuition subsidies for eligible Singapore Citizens and Singapore Permanent Residents.

This ensures world-class AI education remains accessible while maintaining rigorous academic standards.

HIGHLIGHTS



SUBSIDISED FLAGSHIP MOE-ACCREDITED AI DEGREE

A nationally recognised MOE-accredited Master of Science programme combining academic rigour with real enterprise relevance. Subsidised tuition fees for eligible Singapore Citizens and Singapore Permanent Residents.

STRUCTURED 12-COURSE CURRICULUM

A carefully designed progression of core foundations and advanced electives drawn from a 20+ course bank in AI, design, security, and enterprise systems.

FOUR SPECIALTY TRACKS

Students may deepen expertise through coherent tracks:

- Embodied AI
- Analytics & AI in Operations
- Human-Centred AI
- Security & AI

Completing a full track enables focused domain expertise aligned with career goals.

THE YEAR-LONG MSC DAI-E STUDIO PROJECT

A defining feature of the programme. Each student works for the entire academic year on a substantial industry project with:

- One dedicated SUTD faculty mentor
- One industry mentor
- Structured milestones and reviews
- Real datasets and operational constraints

MSc DAI-E studios projects provide hands-on experience and actionable skills through sustained engagement, not short-term exposure.

EMBEDDED INDUSTRY CERTIFICATIONS

Selected modules integrate preparation for recognised certifications, which may include AWS cloud certifications, NVIDIA certifications, cybersecurity-related certifications, etc.

Graduates leave with both academic credentials and practical industry-recognised competencies.

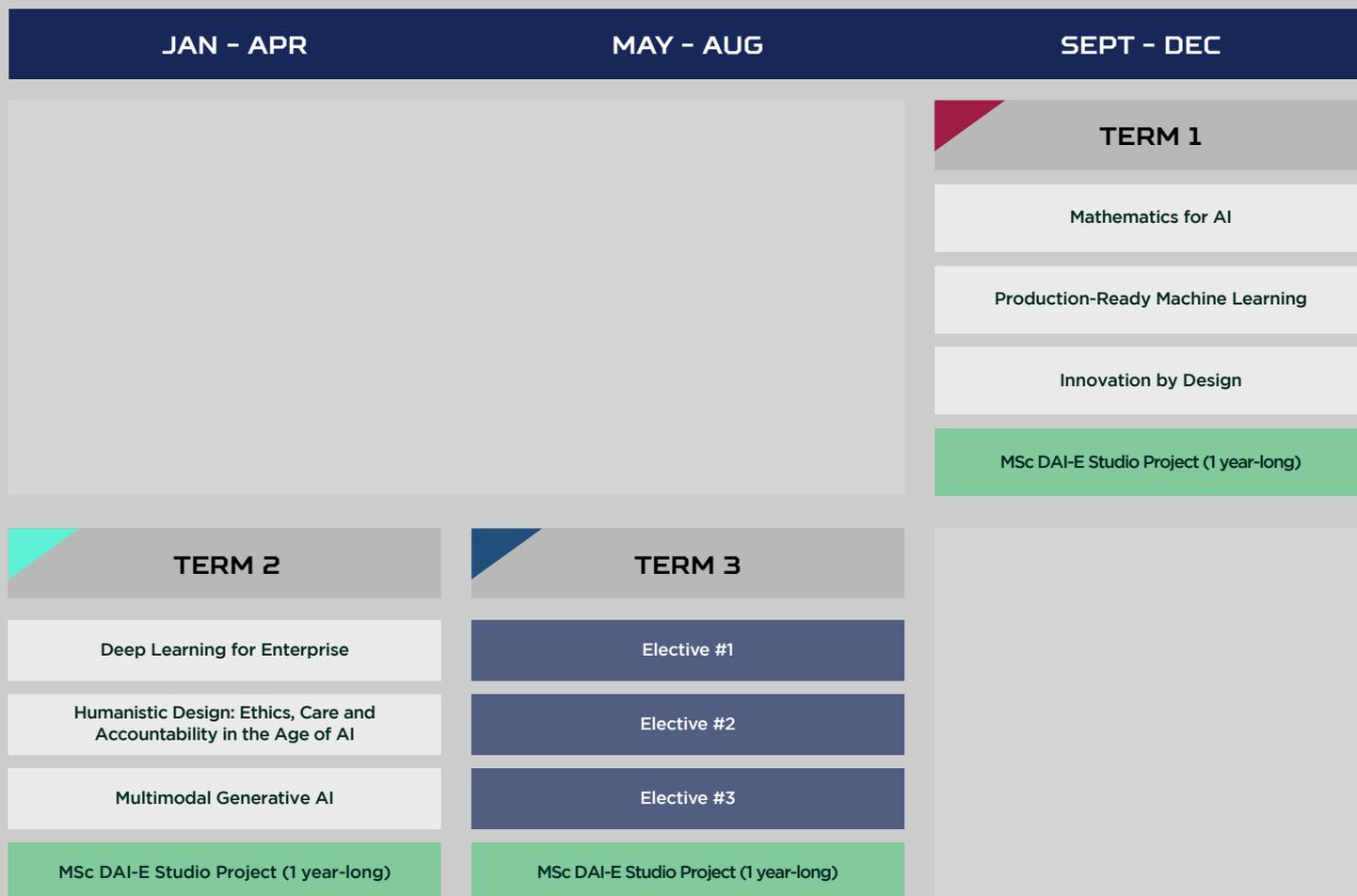
ETHICAL, SECURE AND RESPONSIBLE AI

Understand governance, robustness, bias, and accountability. Design AI systems that are not only powerful, but trustworthy.

PROGRAMME STRUCTURE

(FULL-TIME, 12 MONTHS)

The MSc DAI-E is a one-year full-time postgraduate coursework programme with a minimum candidature period of 12 months.



❖ 6 CORE COURSES

❖ 3 ELECTIVES (RECOMMENDED WITHIN ONE SPECIALTY TRACK)

❖ 1 YEAR-LONG MSc DAI-E STUDIO PROJECT FOR HANDS-ON INDUSTRY-RELEVANT EXPERIENCE

❖ PROFESSIONAL DEVELOPMENT COMPONENTS EMBEDDED WITHIN THE STUDIO

■ EMBODIED AI SPECIALISATION TRACK ELECTIVES

Fundamentals of Robotics and Multi-Robot Systems
 Vision-Language Models for Embodied AI
 Reinforcement Learning for Embodied AI

■ ANALYTICS & AI IN OPERATIONS SPECIALISATION TRACK ELECTIVES

Optimisation for Data Science
 Digital Twins in Data-Driven Decisions
 Data, Technology and Design

■ HUMAN-CENTRED AI SPECIALISATION TRACK ELECTIVES

Management of Design and Technology
 User Experience: Understanding Culture for Design
 Information Visualisation for Human-Centred Design

■ SECURITY & AI SPECIALISATION TRACK ELECTIVES

AI for Cybersecurity
 Trustworthy AI: Designing Robust, Ethical, and Secure AI Systems
 Applied Data Privacy for AI Systems

PROGRAMME STRUCTURE

(PART-TIME, 24 MONTHS)

Designed for working professionals who wish to continue full-time employment while studying. The curriculum, academic standards, and degree awarded are identical to the full-time programme. The pacing is adjusted for sustainable progression. Where appropriate, part-time students may host their MSc DAI-E Studio project within their employer's organisation, subject to approval.

JAN - APR		MAY - AUG		SEPT - DEC	
				Y1 TERM 1	
				Mathematics for AI	
				Production-Ready Machine Learning	
Y1 TERM 2		Y1 TERM 3		Y2 TERM 1	
Deep Learning for Enterprise		Elective #1		Innovation by Design	
Multimodal Generative AI		Elective #2		MSc DAI-E Studio Project (1 year-long)	
Y2 TERM 2		Y2 TERM 3			
Humanistic Design: Ethics, Care and Accountability in the Age of AI		Elective #3			
MSc DAI-E Studio Project (1 year-long)		MSc DAI-E Studio Project (1 year-long)			

✘ 6 CORE COURSES

✘ 3 ELECTIVES (RECOMMENDED WITHIN ONE SPECIALTY TRACK)

✘ 1 YEAR-LONG MSc DAI-E STUDIO PROJECT FOR HANDS-ON INDUSTRY-RELEVANT EXPERIENCE

✘ PROFESSIONAL DEVELOPMENT COMPONENTS EMBEDDED WITHIN THE STUDIO

✘ TWO COURSES PER TERM, OVER 24 MONTHS, EVENING CLASSES

■ EMBODIED AI SPECIALISATION TRACK ELECTIVES

Fundamentals of Robotics and Multi-Robot Systems
Vision-Language Models for Embodied AI
Reinforcement Learning for Embodied AI

■ ANALYTICS & AI IN OPERATIONS SPECIALISATION TRACK ELECTIVES

Optimisation for Data Science
Digital Twins in Data-Driven Decisions
Data, Technology and Design

■ HUMAN-CENTRED AI SPECIALISATION TRACK ELECTIVES

Management of Design and Technology
User Experience: Understanding Culture for Design
Information Visualisation for Human-Centred Design

■ SECURITY & AI SPECIALISATION TRACK ELECTIVES

AI for Cybersecurity
Trustworthy AI: Designing Robust, Ethical, and Secure AI Systems
Applied Data Privacy for AI Systems

TRUSTED BY INDUSTRY LEADERS

The MSc DAI-E Studio model fosters deep collaboration between academia and enterprise. Its structure enables organisations to explore meaningful AI deployment within a supervised academic framework, while developing future AI talent aligned with real operational needs. Industry partners value the sustained engagement and production-oriented outcomes.

↑ QUOTES FROM INDUSTRY PARTNERS

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**SAM LIEW LIEN BAN,
CHIEF EXECUTIVE,
GOVERNMENT STRATEGIC
BUSINESS GROUP (GOV+),
NCS**

I am supportive of the MSc DAI-E programme as it addresses a critical need for advanced AI talent, specifically in the areas of applying core AI skills to design innovation. The programme also weaves in AI ethics, standards, and socially responsible practices, which are critical to developing a successful AI practitioner. Also, students can work with industry mentors up to two days per week on real-life data and problems. This ensures that students stay industry-relevant and current in their skills.

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**NG TIAN CHONG,
CEO, SINGTEL**

Singtel values SUTD's MSc DAI-E programme as our industries need experienced and well-trained AI talents to work across a whole spectrum of roles from the back-end to the front-end of our companies. The work-learn approach to the degree is especially useful for us to upgrade and train our mid-career talents who are leading key digital transformation projects. Such programmes help to build our ecosystem of AI talents while allowing professionals to grow in their jobs.

QUOTES FROM INDUSTRY PARTNERS

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**EUGENE CHIN,
DIRECTOR,
TALENT DEVELOPMENT,
DESIGNSINGAPORE COUNCIL**

The National Design Industry and Manpower Study conducted by DSG has highlighted the importance of strengthening design and technology collaboration. It underscores the necessity of enhancing digital literacy, particularly in emerging technologies like AI, to maximise designers' potential in enhancing the value of products, services, and systems. The MSc DAI-E is poised to leverage this emerging need by serving as a structured approach, and with partnership with the industry to deepen capabilities in AI and design, ultimately leading to enhanced business outcomes.

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**DR YEO BOON-LOCK,
VP ENGINEERING, GOOGLE**

Overall, I think it is a good programme. Mixing studying AI theories with solving real problems in industry is a great way to learn about AI.

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**JI CHENG (PETER),
TECHNICAL PROGRAM MANAGER,
AWS ACADEMY ASIA PACIFIC**

Overall, the programme is aligned with industry demand for AI/ML skills. Machine Learning, Deep Learning and Generative AI are three layers of AI/ML technology. Students can develop a comprehensive understanding of the technology by studying across these layers.

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**PROF LEE CHIEN EARN,
DEPUTY GROUP
CHIEF EXECUTIVE OFFICER,
SINGHEALTH**

What makes MSc DAI-E stands out from the rest is the offer of two "soft" modules which can probably equip students with skills/knowledge on how to design AI solutions that are user-centric and sustainable in the long run. Such skills/knowledge are crucial in the industry as we need staff who can develop AI models with adequate account of practicality and sustainability. Specifically in our healthcare sector, there are many AI models published but lacking in the "Implementation Science" (IS), our industry can certainly benefit more if there are more AI-trained staff who are also familiar with implementation science and impact analysis (how to assess value/impact of an AI solution). We feel we can partner SUTD on this.

TAKE THE NEXT STEP

IF YOU ARE READY TO MOVE BEYOND LEARNING AI TOOLS AND INSTEAD ARCHITECT AI SYSTEMS THAT CREATE REAL ORGANISATIONAL VALUE, MSC DAI-E IS DESIGNED FOR YOU.

PROGRAMME MODES

FULL-TIME (12 MONTHS)

PART-TIME (24 MONTHS, EVENING CLASSES)

TUITION & SUBSIDY

MOE TUITION SUBSIDIES ARE AVAILABLE FOR ELIGIBLE SINGAPORE CITIZENS AND SINGAPORE PERMANENT RESIDENTS. FULL DETAILS AVAILABLE ON THE PROGRAMME WEBSITE.

