

Doctor of Artificial Intelligence



JOIN
FCMS

To Further Your
Career and
Ignite Digital
Innovation



Lead the Future
Advance with AI Expertise



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學



Faculty of
Computer and Mathematical Sciences
計算機及數學科學學院

Uniqueness of the Programme

Faculty of Computer and Mathematical Sciences

FCMS serves as your gateway to leading the global digital revolution. Anchored by the specialised expertise of our three distinguished departments — **Applied Mathematics, Computing, and Data Science and Artificial Intelligence** — FCMS stands at the forefront of global digital transformation, bringing together exceptional education, pioneering research, and meaningful knowledge transfer in a world defined by rapid technological change.

Designed for working professionals and aspiring leaders, the Programme offers a distinctive opportunity to:



Learn from **140+ internationally recognised scholars** with expertise spanning AI, cybersecurity, optimisation, financial mathematics, data science, and related frontier fields.



Enhance **advanced AI capabilities**, interdisciplinary knowledge, and practical skills to address complex challenges faced by business, government, and society.



Develop the **strategic leadership, vision, and ethical judgement** needed to shape the future of transformative AI innovation globally.

Career Pathways

Graduates will be well equipped to:

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- Master advanced AI knowledge and related emerging technologies
-
- Lead high-impact innovation and strategic AI initiatives
-
- Shape organisational and industry responses to emerging technological trends
-
- Drive transformative change across industry, government, and academia
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- Contribute meaningfully to the advancement of the global AI community



Programme Structure

Programme Code 09002

Doctor of Artificial Intelligence

Normal Duration	Fund Type	Graduation Requirement
3 years (Full-time)/5 years (Part-time)	Self-Financed	49 credits

Programme Composition

4 Core Subjects 12 credits	Core Subjects Students will study the following four subjects to excel their knowledge and skills in a broad scope of Artificial Intelligence: - CMS6001 Advanced AI Programming - CMS6002 Frontiers of Artificial Intelligence - CMS6003 Learning Theory for AI - CMS6004 Research Methods and Ethics for AI
4 Elective Subjects 12 credits	Elective Subjects Students can expand their scope of study by selecting four subjects among a list of options. The offering of subjects in each semester is subject to factors such as staff availability, student demand, and programme resources.
Thesis I & II 24 credits	Indicative Areas for Thesis Supervision - Agentic AI - AI in Healthcare, AI in Financial Markets - Bioinformatics; Biometrics - Cybersecurity; AI Security, AI Safety, Trustworthy AI, Fake Media Content Detection - Deep Learning, Generative Models, Representation Learning, Statistical Analysis Leveraging Large Models - Embedded AI, Physical AI, Artificial Intelligence of Things - Embodied Intelligence and Robotics; Intelligent Perception and Mapping; Human-Robot Interaction - Large Language Models (LLMs) and Retrieval-Augmented Generation (RAG); LLM-assisted Software Development/Analysis/Testing/Debugging - Statistical Foundations of AI; High-Dimensional Statistics for AI, Statistical Testing for AI Models - Optimisation, Operations Research, Embedding Methods in Data Science
Academic Integrity and Ethics (AIE) 1 credit	Academic Integrity and Ethics DSAI5T09 Academic Integrity and Ethics in Computer and Mathematical Sciences

Entrance Requirements

All applicants must fulfil the General Entrance Requirements and English Language Requirement to be eligible for admission. Applicants may also be required to attend an interview.

General Entrance Requirements

- ▶ A Master's degree, preferably in a field related to computer science, data science, mathematics, statistics, or engineering, and at least 3 years of significant managerial experience at senior management level;

OR

- ▶ Substantial senior management work experience related to artificial intelligence or data science, along with a recognised first degree and membership in a recognised professional body.



English Language Requirement

Applicants who do not possess a Bachelor's or Master's degree from institutions where the medium of instruction is English are required to fulfil the University's minimum English language requirement for admission purposes by providing one of the following English proficiency test results (taken in a single sitting within 2 years):

- ▶ An overall score of 80 out of 120 (4.5 out of 6 for tests taken on or after 21 Jan 2026) or above in the Test of English as a Foreign Language (TOEFL) Internet-based test;

OR

- ▶ An Overall Band score of 6.0 or above in the International English Language Testing System (IELTS) Academic module.

Remarks: TOEFL iBT Home Edition, the IELTS Online, IELTS indicator test, and IELTS one skill retake results will NOT be considered for meeting the English language requirement for taught programmes.



🌐 <https://www.polyu.edu.hk/fcms/study/tpg/dai>

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Online Application: <https://www.polyu.edu.hk/admission>