



香港教育大學

The Education University  
of Hong Kong

# Master of Science in Artificial Intelligence and Educational Technology

## 人工智能與教育科技理學碩士

One-year Full-time / Two-year Part-time

一年全日制/兩年兼讀制

PROGRAMME CODES: A1M103 / C2M034

課程編號: A1M103 / C2M034

EdUHK Excels in 2024 QS World University Rankings;  
Ranked 5th in Asia & 20th in the World in Education

香港教育大學於2024 QS 世界大學學科  
排名 (教育領域) 全球二十、亞洲第五



# PROGRAMME AIMS 課程目標

## This programme aims to:

- provide participants with **foundational knowledge** in **artificial intelligence** (AI) and educational technology;
- develop participants' **practical skills** and capabilities in **applying AI** and educational technology to solve real world problems with ethical awareness;
- equip participants with pedagogical frameworks, principles, and approaches leveraged by **AI and educational technology** for innovative curricular design and instruction; and
- empower participants to plan, conduct, and **evaluate** educational research projects or **create** workable instructional solutions with AI and educational technology by adopting appropriate research methods and approaches.

本課程旨在為學員提供**人工智能和教育技術方面的基礎知識**。培養學員應用人工智能和教育技術解決問題的實際技能和能力。課程中學員將學習利用人工智能和教育技術設計創新性教學框架。

本課程使學員有能力規劃、開展和評估研究，或通過研究，使用人工智能和教育技術**創造教育解決方案**。

# PROGRAMME CURRICULUM 課程大綱

The programme comprises 24 credit points (cps). Each course is worth 3 cps. Students can take one year (Full-time) to complete the whole programme.

本課程共有24個學分，每科目3學分。學員可在一年內修畢整個課程。

## CORE COURSES 必修科目

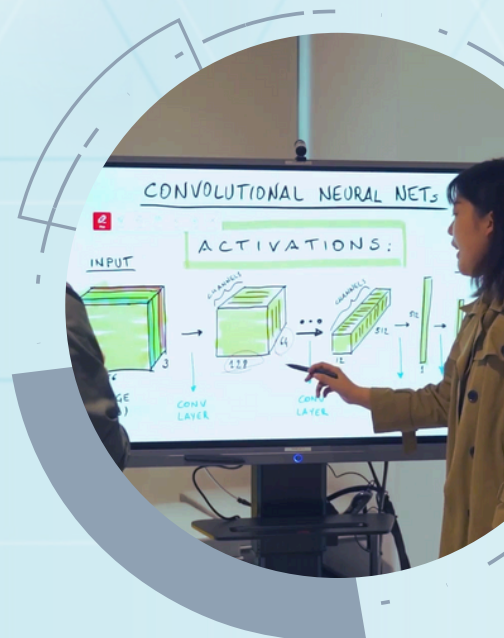


- Artificial Intelligence in Education – 教育中的人工智能
- Coding and Computational Thinking – 編程及運算思維
- Design of Innovative Learning Environments with Technology  
科技輔助創新學習環境設計
- Neural Networks and Deep Learning – 神經網路及深度學習
- Research Methods and Inquiry – 研究方法與探究

## ELECTIVE COURSES 選修科目



- Applied Programming Lab with Python – Python 應用編程實驗室
- Creative Multimedia and Design – 創意多媒體與設計
- Cyber Security and the Application in Education  
網路安全及其在教育上的應用
- Data Mining in STEM Education – STEM教育中的數據挖掘
- Independent Project – 專題研習
- Internet of Things – 物聯網
- Metaverse in Education and Society – 教育和社會中的元宇宙
- Mobile Applications Design and Development – 移動應用設計與開發
- Probability and Statistics – 概率與統計



# ENTRANCE REQUIREMENTS 入學要求

- Applicants should normally hold a recognised Bachelor's degree in educational technology, statistics, computer science, engineering related disciplines, or other equivalent qualifications.  
申請人應持有教育技術、統計學、計算機科學、工程學相關學科的受認可學士學位或其他同等學歷
- Applicant whose Bachelor's degree is obtained from a non-English speaking institution should normally fulfil one of the following minimum English proficiency requirements:  
申請人如在非英語授課的院校取得學士學位，其英語水平須符合以下其中一項要求：
  - IELTS 6.0\* 雅思成績達 6.0 或以上\*； or
  - A TOEFL score of 80 (internet-based test)\*; or  
托福 TOEFL 分數80 (網絡考試)\*； or
  - Band 6 in the Chinese Mainland's College English Test (CET) (a total score of 430 or above and the test result should be valid within two years);  
中國內地的全國大學英語六級考試成績不少於 430 分 (成績有效期為兩年); or
  - Grade C or above in GCSE / GCE OL English; or  
GCSE/GCE OL 英語 C 級或以上；
  - Other equivalent qualifications. 其他同等學歷。
- Applicants are required to have prior programming knowledge and skills.  
申請人應具備編程知識和技能



\*The result of IELTS/TOEFL provided should be within two years and should be taken in test centres.  
\* 所提供的雅思/托福成績應在兩年有效期內，且應是在考試中心參加考試取得的成績。

## PROGRAMME STRUCTURE 課程結構

One-year Full-time 一年全日制

Year 年級	Semester 學期	Taught Courses 科目	Credit Points 學分
1	1	Core Courses 必修科目	12
		Elective Courses 選修科目	0-6
	2	Core Courses 必修科目	3
		Elective Courses 選修科目	3-9
Total Credit Points 總學分: <b><u>24</u></b>			

Two-year Part-time 兩年兼讀制

Year 年級	Semester 學期	Taught Courses 科目	Credit Points 學分
1	1 & 2	Core Courses 必修科目	9
		Elective Courses 選修科目	0-9
2	1 & 2	Core Courses 必修科目	6
		Elective Courses 選修科目	0-9
Total Credit Points 總學分: <b><u>24</u></b>			



## CAREER PROSPECTS 就業前景

- **Computer/STEM teacher:** Graduating students have expertise in integrating AI technology into their teaching practice, as well as teaching practice in programmes.  
計算機/STEM課程教師：畢業學生通過學習相關知識，能勝任計算機或STEM課程的教師。
- **Engineer:** Graduating students can focus on developing tools, systems, and processes that enable AI to be applied to real-world problems. (e.g., **Front-end Engineer, Back-end Engineer, Data Mining Engineer, Algorithm Engineer, AI Engineer**)  
工程師：畢業學生能勝任計算機科學類的工程師，例如：前/後端工程師，數據挖掘工程師，算法工程師，人工智能工程師等。
- **Ph.D:** Graduating students may choose to continue their studies by applying for a PhD related to this programme, exploring the boundaries of human knowledge.  
博士：畢業學生可向上深造，攻讀博士課程。
- **Research assistant:** Graduating students can apply to become research assistants at major schools for research on artificial intelligence and education, exploring cutting-edge disciplines.  
研究助理：畢業學生可申請各大院校的研究助理。

### Programme Information & Application 課程資訊與申請



### ADMISSION ENQUIRIES 入學查詢

☎ (852) 2948 6886

✉ [admission@eduhk.hk](mailto:admission@eduhk.hk)

### GENERAL ENQUIRIES 一般查詢

☎ (852) 2948 7824

✉ [mscait@eduhk.hk](mailto:mscait@eduhk.hk)

Please refer to the following website for more information:

更多資訊，請參閱以下網站：

**<https://www.eduhk.hk/mit/en/mscait>**

Disclaimer: Every effort has been made to ensure the accuracy of the information contained in this leaflet. Changes to any aspects of the programmes may be made from time to time as due to change of circumstances and the University reserves the right to revise any information contained in this leaflet as it deems fit without prior notice. The University accepts no liability for any loss or damage arising from any use or misuse of or reliance on any information contained in this leaflet.

Any aspect of the courses and course offerings (including, without limitation, the contents of the course and the manner in which the course is taught) may be subject to change at any time at the sole discretion of the University if necessary. Without limiting the generality of the University's discretion to revise the courses and course offerings, it is envisaged that changes may be required due to factors including staffing, enrolment levels, logistical arrangements, curriculum changes, and other factors caused by change of circumstances. Tuition fees, once paid, are non-refundable.

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