THE HONG KONG POLYTECHNIC UNIVERSITY
香港理工大學

COLLEGE OF PROFESSIONAL AND CONTINUING EDUCATION
專業及持續教育學院

School of Professional Education and Executive Development
專業進修學院

SPEED

PolyU SPEED 2027/28



Full-time
全日制
Part-time
兼讀制

DEGREES AWARDED by POLYU

Master of Science in Sustainable Engineering Management
可持續工程管理理學碩士

September 2027 Entry 2027 年 9 月開學

- Nurture career-ready professionals for the Green Industrial Revolution: This MSc programme nurtures professionals capable of devising and implementing innovative engineering solutions that minimise environmental impact across diverse engineering disciplines, including manufacturing, materials, building, transportation, environment, and energy, in response to the global emphasis on sustainability
  培育具備職業競爭力的專業人才，迎接綠色工業革命：本碩士課程旨在培養能夠設計並實施創新工程解決方案的專業人士，以在製造、材料、建築、交通、環境及能源等多元工程領域中，減少對環境的影響，回應全球對可持續發展的重視
- Addressing evolving industry needs: The swiftly transforming landscape of engineering and environmental challenges necessitates proactive advancement in industries towards sustainability. This programme provides students with hands-on experience through projects and case studies, thereby ensuring that they are well-prepared to adapt to emerging green technologies and practices
  回應產業需求的演變：工程與環境挑戰的急速變遷，促使產業必須積極推動可持續發展。本課程透過專題習作與案例研究，為學生提供實務經驗，確保他們能充分準備，以適應新興綠色技術與實踐
- Interdisciplinary curriculum: This programme integrates principles of sustainable engineering with essential domains including materials science, construction practices, and energy management. This interdisciplinary approach equips graduates to tackle complex challenges that require both technical knowledge and managerial insight for leading cross-functional teams in projects
  跨學科課程：本課程融合可持續工程原則與核心領域，涵蓋材料科學、施工實踐及能源管理。此跨領域教學模式使畢業生具備解決複雜挑戰的能力，既能運用專業技術知識，亦能運用管理洞察力，領導跨職能團隊執行專案
- The Hong Kong Special Administrative Region (HKSAR) Government, in the 2025 Policy Address (Paragraph 85 on Deepening International Exchange and Cooperation), explicitly supports the nation's efforts to promote green cooperation under the Belt and Road Initiative. Accordingly, the Environmental Protection Department (EPD) established the Belt and Road Sustainable Green Development Training Centre (SGDC) in May 2026 to train international environmental professionals in Hong Kong and to facilitate the systematic transfer of Hong Kong's advanced technologies and practical experience in the environmental field. With the support of the SGDC, this master's programme will offer three elective subjects to be certified by the EPD, namely (1) Environmental Impact Assessment, (2) Noise Modelling and Impact Assessment, and (3) Air Quality Impact Assessment, so as to strengthen students' professional competence in environmental governance and enable them, in the future, to take part in environmental monitoring work and the application of green scientific research solutions in Hong Kong and along the Belt and Road
  香港特區政府在《2025 年施政報告》（深化國際交往合作第 85 段）明確支持國家推動共建「一帶一路」綠色合作。因此，環境保護署（環保署）已在 2026 年 5 月成立「一帶一路」可持續綠色發展培訓中心（培訓中心），在香港培訓國際環保人才，有序轉移香港在環保領域的先進技術與實務經驗。 在這培訓中心的支持下，本碩士課程將提供三個環保署認證的選修科目，包括 (1) 環境影響評估、(2) 噪音建模和影響評估 及 (3) 空氣質素模擬和影響評估，加強學生對環境治理的專業能力，以便日後在香港和「一帶一路」參與環境監測工作和綠色科研應用方案
- The Environmental Impact Assessment (EIA) subject is delivered through a practitioner-led model. Lecturers draw on direct regulatory experience, the practical integration of environmental mitigation into engineering design and construction, and stakeholder engagement within Hong Kong's evolving EIA system
  環境影響評估（EIA）科目採用從業人員主導的教學模式，講師將結合自身豐富的監管經驗、將環境緩解措施實際融入工程設計和施工的實務經驗，以及在香港不斷發展的 EIA 系統中與利害關係人的互動經驗進行授課
- The Noise Modelling and Impact Assessment subject provides practical training, with a focus on road traffic, construction, and fixed noise sources in Hong Kong. Students will gain hands on experience with recognized tools such as RONOSS HK, Web NAT, and Web CNMP, while exploring mitigation strategies, data management, and professional responsibilities in specialized elective modules including railway, aircraft, and noise mapping etc
  噪音建模和影響評估科目著重實務培訓，重點在於香港的道路交通、建築施工和固定噪音源。學員將獲得使用 RONOSS HK、Web NAT 和 Web CNMP 等常用工具的實際操作經驗，同時探索噪音緩解策略、資料管理和專業職責，環境噪音管理的特定領域包括鐵路、航空和噪音測繪等選修模組
- Air Quality Modelling Subject equips students with essential knowledge and practical skills, covering legislation, emission calculations, and advanced modeling techniques. Through real-world case studies and hands-on use of recognized platforms such as AERMOD and SAMP, students will gain the expertise to evaluate environmental impacts, apply effective pollution control measures, and navigate professional responsibilities with confidence
  空氣質素模擬和影響評估科目提供基本知識和實用技能，涵蓋相關法規、排放計算和高級建模技術。透過真實案例研究和對 AERMOD、SAMP 等知名模型 / 平台的實際操作，學員將掌握評估空氣質素影響、實施有效污染控制措施以及履行專業職責所需的專業知識

Programme Basic Information 課程基本資料

Duration of Study:
1 year (Mixed-mode Full-time) / 2 years (Mixed-mode Part-time)
修讀年期：
1 年（混合模式全日制）/ 2 年（混合模式兼讀制）

Commencement Date:
September 2027 Entry
開課日期：
2027 年 9 月開學

Tuition Fee：
學費：

Programme Structure 課程結構

Students are required to complete 11 subjects for a total of 31 credits with satisfactory results as well as passing an e-learning course (non-credit bearing) to fulfil the National Education Requirement in order to obtain a master's degree.
學生需要完成 11 個科目合共 31 個學分，取得滿意成績，並需於一科電子學習科目（非學分）取得合格成績，以滿足國民教育要求，方可取得碩士學位。

Compulsory Subjects (all 7 subjects; 3 credits each unless otherwise specified)
必修科目（全部 7 科目，每科 3 學分，另有規定除外）

- Academic Integrity and Ethics in Engineering (1 credit 學分)
- Advanced Intelligent Buildings
- Energy Conversion Systems
- Principles and Applications for AI
- Recycling and Sustainable Materials Management
- Safety and Quality Management for Sustainable Product Innovation
- Sustainable Design and Manufacturing

Elective Subjects[#] (any 4 subjects; 3 credits each)
選修科目 [#]（任何 4 科目，每科 3 學分）

- Building Whole Life Carbon and Cost Analysis
- Energy Requirement and Strategy
- Environmental Assessment and Control
- Green Supply Chain Management
- Green Transportation
- Heat, Ventilation and Air Conditioning
- Smart and Sustainable Materials in Construction

[#] Offering of any elective subjects is subject to sufficient enrolment.
每科選修科必須有足夠報讀人數才會開辦。

Career Prospects 就業前景

Graduates can take up the following positions：
畢業生可擔任以下職位：

- Green/circular materials consultant
  綠色 / 循環材料顧問
- Renewable energy consultant
  可再生能源顧問
- Recycling/decarbonization engineer
  回收 / 碳減排工程師
- LCA/product sustainability engineer
  生命週期評估 / 產品可持續工程師
- Industrial energy systems engineer
  工業能源系統工程師
- ESG data engineer
  ESG 數據工程師



Entrance Requirements 入學要求

Holders of a recognised bachelor's degree, or an equivalent qualification in computer science, engineering, business administration or related disciplines.
持有認可的計算機科學、工程學、工商管理學或相關學科學士學位或同等學歷。

For details of entrance requirements, please visit the programme webpage.
入學要求詳情，請瀏覽課程網頁。

For more information, please contact:
想了解更多，請聯絡：

Programme Leader 課程統籌
Dr Zerance Ng 吳新培博士
BEng (H.K.Poly.), PhD [PolyU(H.K.)]
(852)3746 0167
zerance.ng@cpce-polyu.edu.hk

Assistant Programme Leader 助理課程統籌
Dr Claire Shi 石睿博士
BEng (WHU), MEng (WHU), PhD (H.K.)
(852)3746 0130
claire.shi@cpce-polyu.edu.hk

Enquiries 查詢

(852)3746 0900 cpce.ar@cpce-polyu.edu.hk

PolyU West Kowloon Campus 香港理工大學西九龍校園
9 Hoi Ting Road, Yau Ma Tei, Kowloon, Hong Kong
香港九龍油麻地海庭道 9 號

The School reserves the right to update the contents of this programme brochure and to change or withdraw programmes or subjects described here.
學院有權更改此課程單張內容或撤銷此單張所述課程或科目。
School of Professional Education and Executive Development is operated by College of Professional and Continuing Education Limited which is an affiliate of The Hong Kong Polytechnic University.
專業進修學院是由香港理工大學之附屬機構專業及持續教育學院有限公司管理。

HK.PolyUSPEED polyu_speed polyu-speed polyu-speed

Programme Details 課程詳情