

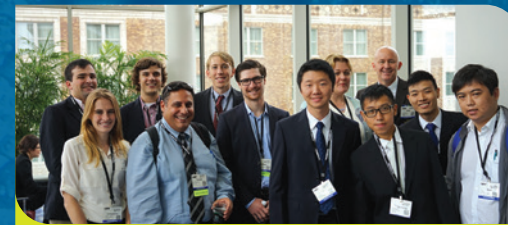
Undergraduate students attending international conference in USA
本課程學生參加在美國舉行的國際能源大會



World Energy Engineering Congress (WEEC) 2019
Washington DC, USA



WEEC 2017, Atlanta, USA



WEEC 2014, Washington DC, USA

Graduation tea reception
畢業茶會



Selfie moment with Nobel laureate
與諾貝爾物理學獎獲獎者自拍

Student receiving technology award
浸大物理系學生獲得初創科技大獎



Technologies patented by PHYS professors, Prof. KW Cheah, Prof. NH Cheung & Prof. Jeff Cheung, took top prizes in international invention competition (Geneva, Switzerland).

浸大物理系的謝國偉教授、張迺豪教授和張大健教授的科研發明在瑞士日內瓦舉行的國際發明大賽獲取創新發明大獎。

Start-up companies
浸大物理系的科技初創公司

CP Cathay Photonics Ltd.

Scratch Proof Thin Film on Glass
Prof. KW Cheah
謝國偉教授
2015

Grand Prix & Gold Medal
2016 Geneva



Get it with...
Booguu
Booguu Technology Ltd.

Health care and medical devices
Prof. Jeffrey Cheung
張大健教授
2016

Gold Medal
2017 Geneva



C
Crimsonvision

Visualizing NIR light for fast and portable detection
Prof. F.R. Zhu
朱福榮教授
2019

Admissions and Programme Curriculum Enquiries

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香港浸會大學
HONG KONG BAPTIST UNIVERSITY



Department of Physics
Faculty of Science

BSc (Hons) in Green Energy and Smart Technology

綠色能源及智能科技理學士 (榮譽)

4-year Programme, JUPAS code: JS2510



The aim of the programme is to nurture young professionals with the knowledge and practical skills to develop and implement green and smart technology-driven approaches for a career in the rapidly expanding sector of smart and net-zero carbon city development. Students graduating from this programme are well equipped and highly competitive for careers as green energy and smart technology professionals, e.g., in energy audit and consulting, energy/utility companies, green/smart building design and management, smart transportation and energy conservation. The basic science training also prepares students for further studies in science and engineering, or careers in technology innovation.

本課程旨在培養具有綠色能源和智能科技知識和實踐技能的年輕專業人士，從事極具發展前景、與智能城市和零碳城市發展相關的工作。本課程畢業生將極具競爭力，可從事與綠色能源和智能科技相關的廣泛專業工作，例如能源審計和諮詢、能源/公用事業、綠色/智能建築設計和管理、智能交通、節能科技等。此外，本課程的畢業生還可在科學、工程或創新科技領域進一步升學進修。



Programme focus 課程重點

This programme provides training in green energy science and smart technology, such as green energy generation, smart energy storage and distribution, smart control systems and IoT, carbon audit, energy audit and energy management.

本課程教授能源科學、綠色科技和智能科技方面的基礎和應用知識，例如綠色能源發電、智能儲能和分配、智能系統與物聯網、碳排放審計、能源審計和能源管理。

Renewable Technology
可再生能源

Energy-saving
Smart Technology
智能節能科技

Energy Audit &
Management
能源審計及管理

Green/Smart Building &
Transportation
綠色智能建築及交通

Course structure 主要課程科目

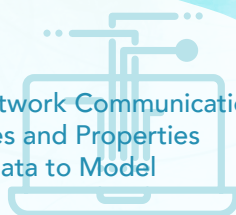
Green Technology

- Renewable Energy Technology
- Energy Storage and Distribution
- Green Energy Lab I, II and with smart devices



Smart Technology

- Smart Sensors and IoT
- Digital Technology for Network Communication
- Smart Materials: Structures and Properties
- Machine Learning: from Data to Model



Applications

- Carbon Audit and Energy Audit
- Energy Management of Green Building
- Sustainable Transportation Technology



Other study components 其他課程內容

- Professional certifications
- Internship
- Research
- Overseas study exchange & conference
- Study tours & Field trips

Our students received scholarship from AEEHKC
(Association of Energy Engineers Hong Kong Chapter)
本課程學生榮獲AEEHKC獎學金



Field trips and study tours
課外實習、參觀與遊學



Preparation for professional certifications 能源管理、審計相關 專業證書的準備

In addition to in-class learning and projects, students have experiential learning opportunities, such as internship and overseas study exchange. Courses are also available to help students to prepare for professional certification examinations. Such training helps our students to prepare for taking global and local professional examinations*.

除了課堂學習外，學生還有體驗式學習機會，例如實習和海外學習交流。課程還教授與國際專業認證相關的科目，協助學生準備專業認證考試*。

* Examples of available certificates:

- <https://www.aeecenter.org/certified-energy-manager/>
- <https://www.aeecenter.org/certified-energy-auditor/>
- <https://www.aeecenter.org/carbon-auditing-professional/>

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Internship examples 實習舉例

Lam Hoi Kiu
One-year Intern
CLP Power 中電



Chan Wai Lun
Energy & Building Control
Property Department
The Hong Kong Jockey Club
香港賽馬會



Kennie Huynh
Summer Intern
HK Electric 港燈



Other internship and employment examples 其他實習與就業舉例

- MTR corporation
- Environmental Protection Department (EPD) of HKSAR
- Electrical and Mechanical Services Department (EMSD) of HKSAR
- Shun Hing Group
- Fugro N.V.
- Nano and Advanced Materials Institute Limited (NAMI)