



綠色科技(能源)理學碩士

Master of Science in Green Technology (Energy)

Department of Physics

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MSc Program Director

February 19, 2021



Outline

- Overview of Master of Science in Green Technology (Energy)
- Programme Admission Requirement
- Fellowships Scheme
- Scholarships
- Application Procedures and Deadline



教學與專題研究

教學特色：

- 嚴謹治學，注重紮實的基礎知識，學科交叉，理論與實驗相結合
- 培養獨立思考和發揮創新能力

論文專題研究方向：

- Energy studies and renewable energy technologies
- Solar cell technologies
- Energy audit and economics analysis
- Energy management
- Computer modeling, network and application in machine learning
- Advanced materials and electronic devices
- Environmental monitoring
- Sensor technologies and applications



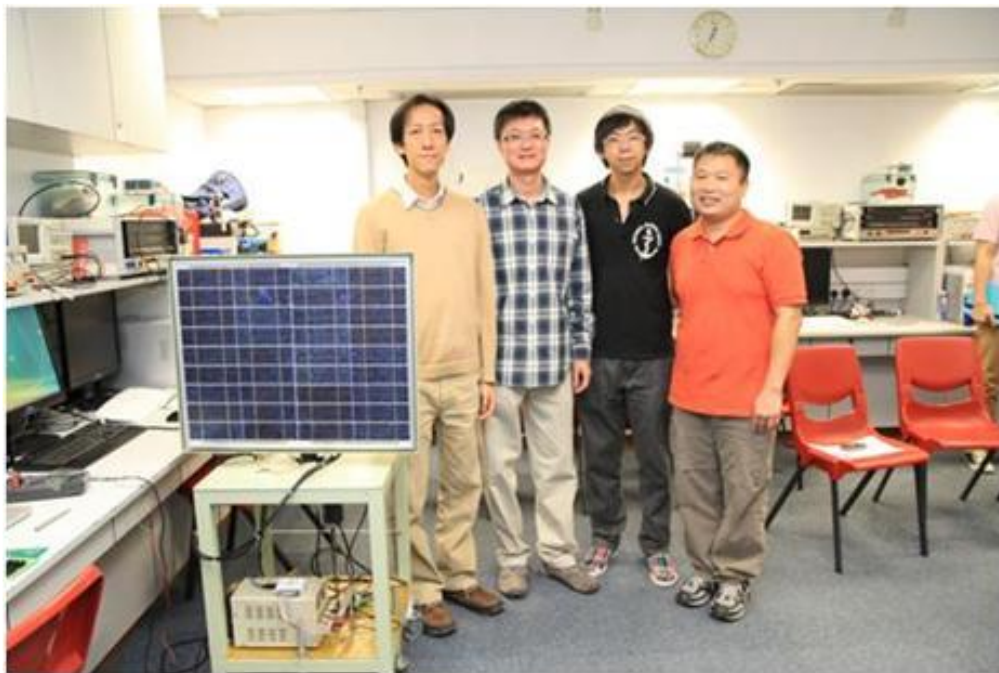


Cores and Electives

- Cores (6 courses) covering
 - Renewable Energy Technologies (I, II and III)
 - Green Laboratory
 - Projects in Green Technologies (I and II)
- Areas of 10 electives (4 courses)
 - Energy Studies and Management
 - Energy Usage, the Environment & Sustainability
 - Energy Audit and Management (professional development to CEM)
 - Geographic Information System & Remote Sensing
 - Advanced Topics in Energy Studies
 - Energy Economics
 - Science and Technology
 - Organic Electronics
 - Advances in Displays and Lighting
 - Introduction to Modern Materials
 - Principles of Optoelectronics
 - Physics for Green Technology



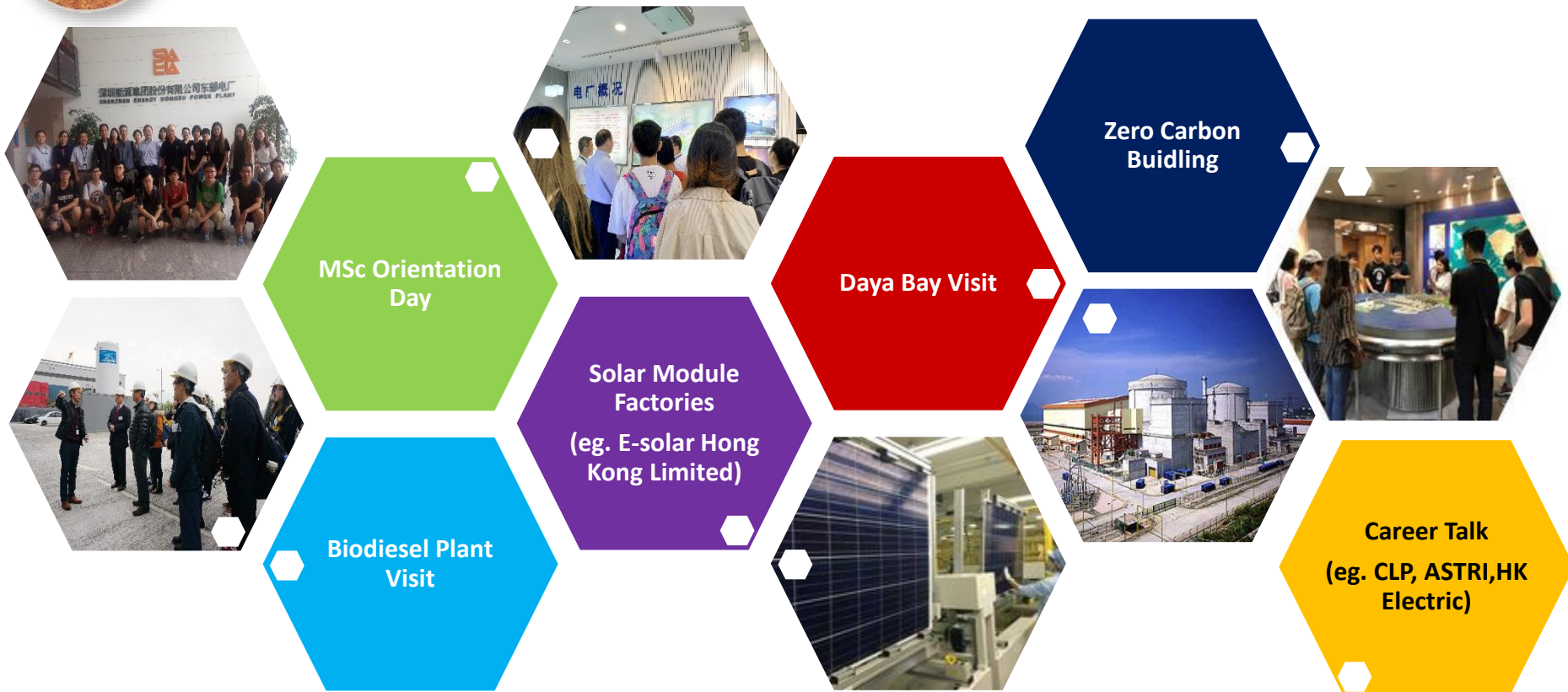
論文專題研究



Solar Tracker:
太陽能電池追蹤器
– Dr. Chan Mau Hing



學術交流和實地考察



Field trips: ASB Biodiesel, Zero Carbon Building, E-Solar, HK Electrics, Daya Bay Nuclear Power Plant, Shenzhen Energy etc.



學術交流和實地考察



Academic background of our MSc students:

Majority of our students are from science, engineering and environmental disciplines. The program also attracts gifted students with management, business and other backgrounds to learn advanced renewable energy technologies and energy management.



Shenzhen WTE
Power Plant Visit



Certified Energy Manager (CEM) Training

- Certified Energy Manager (CEM) is the mark of an energy professional.
- Since its inception in 1981, CEM credential has become widely accepted and used as a measure of professional accomplishment within the energy management field.
- It has gained industry-wide recognition as the standard for qualifying energy professionals both in the United States and worldwide.
- There are >14,500 professionals in 25 countries.



Certified Energy Manager (CEM) Training

- Energy Management
- Energy Codes & Standards
- Indoor Air Quality
- Energy Audit & Instrumentation
- Electric Rate Structures
- Motors & Drives
- Energy Accounting in Buildings
- Alternative Financing
- Green Buildings
- Life Cycle Costing
- Fuel
- Waste Heat Recovery
- Lighting System
- Controls & Energy Strategy
- Building Commissioning
- Building Energy Use & Performance
- Economic Analysis
- Hong Kong Practice
- Cogeneration
- Maintenance
- Insulation



Programme Admission Requirement

- A **bachelor's degree** from an accredited university or recognized institution of higher studies;
 - although preference will be given to holders of degrees in Physics, Chemistry, Biology and appropriate disciplines of Engineering, and Environmental Study, the Programme welcomes a multi-disciplinary intake of students, as this is consistent with the special character of the Programme.



Programme Admission Requirement

- Non-local candidates from an institution where medium of instruction is not English shall have to satisfy one of the followings:
 - a TOEFL score \geq 537 (paper-based test), or 74 (internet-based test);
 - an overall band score \geq 6.0 in international English Language Testing System (IELTS)
 - score \geq 450 in the new College English Test (CET6) of China



Fellowships Scheme

Targeted Taught Postgraduate Programmes Fellowships Scheme

- Offered by the University Grants Committee (UGC)
- Provide fellowships for local students pursuing designated MSc programmes
- HK\$67,900/per fellowship
- The full tuition fee of the MSc GTE Programme is HK\$110,000, the fee for fellowship students is HK\$42,100.
- For more details of the Scheme, please refer to:
https://www.ugc.edu.hk/eng/ugc/activity/targeted_postgraduate_scheme.html



Fellowships Scheme

Targeted Taught Postgraduate Programmes Fellowships Scheme

- Selection criteria

- cGPA of 2.8-4.0 with a program justification
- Academic results and interview performance will be taken into consideration for nomination.
- Internship and/or working experience in related fields will be an advantage.

- Application

- Students submit the Fellowship Application Form and a personal statement
- Nominate by MSc GTE, review by University and RGC



Scholarship

- Entrance Scholarship

- Students who are admitted and accept offer to MSc GTE, and satisfied academic and interview performance will be reviewed by the MSc Committee for the award of the entrance scholarship (HK\$10,000 or HK\$20,000).

- Merit Scholarship

- Top 3 ranked students in term of cGPA score will be awarded Merit Scholarship (HK\$10,000, HK\$7,000 and HK\$5,000) respectively.



Application

- Application period:
 - (first round) 28 Sep 2020 – 1 Apr 2021
 - (second round) 2 Apr 2021 – 7 Jun 2021 (for non-local)
 - 6 Jul 2021 (for local)
- For more details, please visit Programme website:
 - <https://physics.hkbu.edu.hk/programme/postgraduate/msc-in-green-technology-energy>



歡迎了解綠色科技(能源)理學碩士課程更多詳情

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