香港浸會大學
HONG KONG BAPTIST UNIVERSITY

DEPARTMENT OF PHYSICS 物理系

MASTER OF SCIENCE in

# GREEN TECHNOLOGY (ENERGY)

Department of Physics
Hong Kong Baptist University

## WHY US

We encourage our students to actively seek for internship opportunities in relevant industries, research institutions, organizations and the existing local/international links to make them more competitive in their career endeavor. Our Graduates can become:

- Consultants in Environment Assessment Agencies
- Researchers/ Technicians in Energy companies or Power Utilities
- Energy/ Environmental Engineers or Auditors
- Analysts in Energy Policies
- Further Study for PhD Programmes

APPLY NOW!

## We aim to prepare graduates for a career in the field of sustainable energies

We provide students with theoretical knowledge and a board exposure in the topics of energy harvesting, storage, conservation, carbon audit and energy economics. It also provides hands-on training experience through various projects and experiments in environment monitoring, low-carbon technology, energy harvesting, automated solar tracker, photovoltaic devices, solid-state lighting, electricity market and many others.

## WHY GREEN ENERGY

Energy has become a dominant issue in current times in that sustainable energy usage and the environment directly affect both our quality of life and the success of our economy. In this regard, there will be great changes in the way we need to shape the future of our life style and of our work place. Our programme focuses on prevailing alternative energy technologies as well as socio-economic consequences in their implementations.

## SCHOLARSHIP

- **Entrance Scholarship** of HK$10,000 or HK$20,000 for outstanding students who satisfied the English result, academic and interview performance
- **Merit Scholarships** for the Top 3 students in term of cGPA score
- **Targeted Taught Postgraduate Programmes Fellowships Scheme** for nominated local students offered by the University Grants Committee

## PROFESSIONAL TRAINING OPPORTUNITIES

Apart from a wide variety of elective courses that focus on different aspects of green technologies, students will also have opportunities to demonstrate their mastery of integrating theories and concepts with practical applications to solve real-world problems in the experimental laboratory courses and the MSc Dissertation Project.

In addition, we cooperate with the Association of Energy Engineers Hong Kong Chapter to provide a professional training course leading to the **Certified Energy Manager (CEM)** requirement under the Association of Energy Engineers (AEE), USA. The qualification provides a solid career development foundation to our students since it is an internationally recognised qualification on energy audit.

*For more details of CEM, please refer to: https://www.aeecenter.org/certifications/certifications /certified-energy-manager; The Programme does not warrant that all information provided or any part thereof is accurate in all respects.*

Learn more on the CEM!

July 2022

## ADMISSION REQUIREMENT

- a bachelor's degree from an accredited university or recognised institution of higher studies;
- English Proficiency requirements if the medium of instrcution of such degree is not English:
  - **TOEFL** score ⩾ 537 (paper-based test) / 74 (internet-based test);
  - **IELTS** Overall band ⩾ 6.0;
  - New College English Test (**CET6**) of China ⩾ 450;
- Work experience is an advantage but not essential;

APPLY NOW!

> *(The Programme) helped greatly in building the solid foundation for my further studies.*
>
> *CHEN Xin,*
> *2018 Graduate*
> *PhD Candidate at HK CityU*

> *(This Programme) a highly interdisciplinary course that covers different area. And it isn't limited to green energy technology itself.*
>
> *LI Zhen,*
> *2022 Graduate*
> *Currently working at BYD*

## CONTACT US


+852-3411-5817
physmsc@hkbu.edu.hk
224 Waterloo Road, Kowloon Tong, Hong Kong SAR, China
https://physics.hkbu.edu.hk/
physmscgte

香港浸會大學
HONG KONG BAPTIST UNIVERSITY

DEPARTMENT OF PHYSICS 物理系

## We value teaching and learning as well as hands-on and real-world experience

**From time to time, we organize field trips and site visits to the energy-related industries. Some previous examples are:**

- ASB Biodiesel
- Zero Carbon Building
- HK Electrics
- Daya Bay Nuclear Power Plant
- Shenzhen Energy

## We encourage students to take up challenges


In 2022, Our students got Top Awards in **The Global AI Challenge for Building E&M Facilities**

- Grand Prize (AWS Most Efficient AI Algorithm Award)
- Gold Award
- Silver Prizes (OU Weijin, HU LiuRuochen, XIE Maokai, ZHENG Boyu)


# OUR CURRICULUM AND COURSES

We provide one-year full-time and two-year part-time study mode.

The courses are 3-unit each and students need to take a total of 30 units for graduation. The degree of Master of Science in Green Technology (Energy) shall be rewarded to students who have satisfactorily completed all the course requirements. To fulfill graduation requirements, students should obtain Grade C- or above in all courses; and a cumulative GPA of 2.5 or above.

## CORE COURSE

Students will build up a solid foundation and overall picture on the most updated technologies in green energy.

- Renewable Energy Technologies I
- Renewable Energy Technologies II
- Renewable Energy Technologies III
- Green Laboratory
- Project in Green Technology I
- Project in Green Technology II

## ELECTIVES COURSE (PICK FIVE)

Students can pick different electives to have a deeper understanding in various aspects and perspectives in green energy.

- Energy Audit and Management
- Organic Electronics
- Energy Usage, the Environment and Sustainability
- Advances in Display and Lighting
- Smart Grids and Sustainable Power Systems
- Smarts & Remote Sensing
- Advanced Topics in Energy Studies
- Physics for Green Technology*
- Principles of Photonics Physics*
- Principles of Optoelectronics*

**The offer of courses depend on the resources and manpower*

Learn more about our courses!

**BE PREPARED TO HELP CHANGE THE WORLD**