

**Bachelor of Engineering  
(Honours) in Environmental  
Engineering and  
Management  
環境工程及管理 (榮譽)  
工學士**

Year

**1**

Entry

SSSDP JUPAS  
Catalogue No.  
JSSV06

Year

**3** FT or PT

Entry

Self-financed  
ST125102 (FT)  
ST525102 (PT)



### PROGRAMME HIGHLIGHTS

- Multi-disciplinary skills including air pollution and noise control, waste management, water and wastewater works, environmental sustainability and project management.
- Graduates for employment as environmental engineers or project managers.

### Programme Overview

The programme is vocationally-oriented and aims to provide comprehensive undergraduate education for secondary school graduates who are pursuing professional career in environmental engineering and management. Graduates from this programme will be professionally competent and socially and globally responsible.

This programme has been developed in response to the demands of the industry and the community for environmental engineers to assess and control the environmental impact on infrastructure development and industrial activities, and to manage the environmental performance of enterprises in Hong Kong and Greater China. It provides extensive coverage of and multi-disciplinary perspectives on various environmental and sustainability issues.

### Career Prospects

Graduates may be employed as assistant engineers, environmental officers/engineers/managers, technical officers, project coordinators/managers in public and private sectors such as Government Departments, consultancy companies, construction companies, industrial manufacturers, utility companies, facilities and building management companies, waste treatment and recycling management service providers, non-government organizations and private corporations.

### Professional Recognition

The programme is accredited by Hong Kong Institution of Engineers (HKIE).



資歷架構  
Qualifications  
Framework

This programme is recognised under the QF (Level 5)  
QR Registration No.: 12/000572/5  
Registration Validity Period: 01/09/2012-31/08/2022

## Industry Endorsement

"Gammon Construction is keen on providing a learning platform and offering employment opportunities for our future generation. We are impressed with the diligence, passion and performance of the students and graduates from THEi. They are pro-active and well-trained with the latest professional knowledge. We look forward to having more THEi young talents to join our internship programme and our Gammon team together to serve the construction industry and build our city."

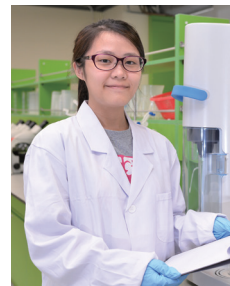


## Ir Sai-yen YU

Director  
Gammon Construction Limited

## Graduate Endorsement

"I joined URS Corporation, a Fortune 500 professional consultant company, and Atkins as an intern. I received on-the-job training by conducting energy audit and environmental and structural testing. I gained better insights into global development trends of the industry by worked with senior consultants and communicated with other interns around the world."



## KWAN Pak Yan

Graduate  
Bachelor of Engineering (Hons) in Environmental Engineering and Management

## Programme Structure

### Year 1

- General Education Core Module: Chinese 1
- General Education Core Module: The Human Spirit
- General Education Core Module: English for Academic Studies 1
- Computer Programming
- Engineering Physics
- Calculus
- Introduction to Ecology
- Fundamental Chemistry
- Introduction to Environmental Engineering
- Introduction to Environmental Economics
- Introduction to Sustainable Development
- Safety, Health & Industrial Training

### Year 2

- General Education Core Module: Habits of Scientific Thinking
- General Education Core Module: Social Dynamics of Organisations
- Advanced Engineering Mathematics
- Water & Wastewater Engineering
- Materials Science & Recycling Technology
- Heat / Mass Transfer & Energy Efficiency
- Engineering Statistics
- Environmental Soil Physics
- Environmental Policy & Legislations
- Environmental Sampling, Monitoring & Analysis
- Air Pollution & Noise Control
- General Education Elective Module 1

### Year 3

- General Education Core Module: English for Academic Studies 2
- General Education Core Module: Chinese 2
- General Education Core Module: English for Professional Purposes
- Environmental Fluid Mechanics
- Integrated Solid Waste Management
- Sustainable Energy Systems
- Environmental Risk Analysis
- Biological Wastewater Engineering
- Construction & Project Management
- Water Resources Engineering
- General Education Elective Module 2
- Industrial Attachment

### Year 4

- Design of Environmental & Sustainable Facilities
- Environmental Impact Assessment
- Environmental Management of Construction Sites
- Final Year Project 1
- Final Year Project 2
- Programme Elective 1
- Programme Elective 2
- General Education Elective Module 3
- General Education Elective Module 4

## Programme Electives\*

- Environment, Safety and Quality Management
- Environmental Modelling and Geographical Information System
- Noise & Vibration Control
- Industrial Wastewater Treatment
- Site Remediation & Landfill Design
- Carbon Management for Engineers
- Engineering Risk, Reliability & Decision
- Principle of Project Finance
- Advanced Electrical Technology
- Basics of Building Information Modelling
- Building Sustainability & Green Building Assessment
- Building Energy Efficiency and Carbon Emission

## General Education Elective Modules\*

### Faculty of Design and Environment (FDE)

- Effective Branding & Consumer Behaviour
- Impact of Contemporary Design on Society
- Living with Sustainable Materials
- Landscape Appreciation
- Urban Greenery & Ecology
- Tree Safety Inspection & Climbing
- The Art & Science of Film
- Web Technology & E-Commerce
- Housing Policy & Management

### Faculty of Management and Hospitality (FMH)

- Stress Management
- Wellness & Lifestyle Management
- Corporate Social Responsibility in Action
- Personal Financial Management
- Self-marketing & Personal Branding
- The Tourism Industry in Hong Kong
- Marketing Essentials
- Accounting for Non-Accountants
- Business Management in Hong Kong
- Essentials in People Management

### Faculty of Science and Technology (FST)

- Urban Development in Hong Kong
- Nutrition & Health<sup>^</sup>
- Technological & Economic Development in a Global Context
- Food in Daily Life<sup>^</sup>
- Safety & Quality of Consumer Products
- Introduction to Astronomy

## School of General Education and Languages (SGEL)

- Hong Kong Society: Continuity & Change
- Literature & Modern China
- The Modern World: History & Culture
- Language, Culture & Society
- Translation in Everyday Life (English-Chinese)
- Journey to the Exotic World of Microorganisms
- Plants & Human Civilisations
- Creative Writing in Chinese
- Introduction to Spanish Language & Culture
- Service Leadership in a New Era
- Making Sense of Our World: Selected Topics in Sociology
- Cantonese in Hong Kong Popular Culture
- Beyond Hollywood: Introduction to World Cinema
- Western Classical Music Appreciation
- Hong Kong Literature: the Locals, the Mainland & the world

\* More selective modules will be offered. Modules offered are subjected to change.

Students may be required to attend additional training and industrial attachments, for which separate fees will be charged.

Completion of additional core module(s) may be required prior to commencement or during Year 3 study for Year 3 entry.

<sup>^</sup> Students are allowed to either take "Nutrition & Health" or "Food in Daily Life" but not both modules to fulfil the graduation requirements.