



Department of  
Systems Engineering

香港城市大學  
City University of Hong Kong

# BEng Innovation and Enterprise Engineering

Department of Systems Engineering

College of Engineering

City University of Hong Kong

**JUPAS Code: JS1219**

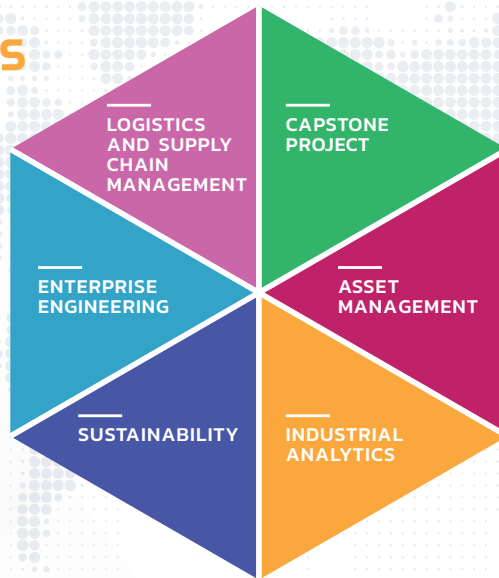
# Aims of the programme

The BEng programme in Innovation and Enterprise Engineering programme is a unique undergraduate programme in Hong Kong aiming to nurture young engineers with an innovation and enterprise mindset. It covers elements of systems design and process, engineering innovation and entrepreneurship.

# Curriculum

Our curriculum consists of a set of core courses covering fundamental knowledge of engineering science, innovation and design, intellectual property, associated with a wide range of electives on different application domains.

# Application domains



# Core subjects:



- Engineering Statistics



- Systems Modelling



- Innovation and Entrepreneurship



- Operations Research



- Project Management

# Entrance Requirement

Minimum Entrance Requirements					
English	Chinese	Mathematics	Citizenship and Social Development	Elective Subjects	
				Elective 1	Elective 2
Level 3	Level 3	Level 2	Attained	<b>Level 3 in one elective subject from:</b> <ul style="list-style-type: none"> <li>• Biology</li> <li>• Chemistry</li> <li>• Design and Applied Technology</li> <li>• Economics</li> <li>• Information and Communication Technology</li> <li>• M1/M2</li> <li>• Physics</li> </ul>	Level 3 in any elective subjects

Admission Score Formula: best 5 subjects including English and Mathematics

## Career prospects

- Engineering manager
- Tech startup
- Research and development
- Educator
- Business consultant
- Decision analyst
- Supply chain manager



## Curriculum

### Graduation Engineering / Capstone Project

Showcase your abilities to innovate on systems and processes in enterprises  
(Optional: Industrial Attachment Scheme and/or Co-operative Education Scheme)

### Elective Courses

The third and fourth years of your study – freedom to follow your own path and interests

Advanced course to specialize in

- Asset Management
- Urban Sustainability
- Tech Startups
- Engineering Finance
- Use of Social Networks
- eLogistics
- Digital Manufacturing

### Core Courses

The second and third years of your study – to build up a firm foundation

- Engineering Mathematics and Statistics
- Computer Programming
- Operations Research
- Intellectual Property
- Product Development and Innovation
- Entrepreneurship
- Project Management

### General Education Courses

The first year of your university study – the basics

- English
- Chinese
- Calculus
- Computer Programming
- Physics
- Introduction to Professional Engineering Practice

This figure shows the basic structure of our programme. It is subject to update.

# Student life

## Exchange

- Experience study and life overseas

## Study tour

- Opportunity for overseas study experience in summer

## Internship

- Working experience in local and overseas firms

# Student achievements

Selected scholarships received by our students:

**Bright Future Whole Person Development Scholarships  
(鵬程全人發展獎學金) \$82,100 per year**

**The D. H. Chen Foundation Scholarship  
(陳廷驊基金會獎學金) \$80,100**

**HSBC Hong Kong Scholarship \$50,000**

**Bright Future Scholarships for Outstanding Engineering Students  
(鵬程傑出工程學生獎學金) \$42,100**

**Wei Lun Foundation Scholarship \$42,000**

## Scholarship and awards

### Professional activities

- Mentor schemes
- Company visits
- Career fair

## Contact

3442-9321



Questions? Ask us at [sye.office@cityu.edu.hk](mailto:sye.office@cityu.edu.hk)



*\*This programme is subject to approval.*