

BEng (Hons) in Structural and Fire Safety Engineering (Full-time)

JUPAS Code: JS3777



This programme, which responds to the increasing demand for both structural and fire safety engineering professionals in Hong Kong and in many well-developed cities in the world, arises from the Fire Service (Amendment) Ordinance 2017 and the aging building stocks in Hong Kong. It is the first of its kind offered by local universities.

The programme aims to educate students as competent engineers who are able to design, maintain and retrofit both new and existing buildings and structures with technical knowledge of structural engineering, civil engineering, as well as both active and passive fire protection technologies.

Attractive Features

- Four-year full-time comprehensive programme.
- A unique undergraduate programme which combines the essential elements of structural engineering, civil engineering, and fire safety engineering.
- Opportunity to join exchange programmes for 1-2 semesters at internationally famed universities.
- Practical training modules in the technologically advanced Industrial Centre of the University.
- Summer placement in Hong Kong, Mainland China or overseas.

Entry Scholarship

To accord recognition to outstanding HKDSE students, a one-off entry scholarship will be granted to admittee(s) with the following HKDSE results. For details, please click here or scan the QR code.

Amount	Criteria (Any Best 5 Subjects)
HK\$50,000	HKDSE Scores of 25 or above
HK\$25,000	HKDSE Scores of 22 to 24



What is Structural Engineering?

Structural Engineering is about the **planning**, **design**, **construction**, **maintenance**, **and rehabilitation** of a great variety of structures including buildings, bridges, tunnels, underground structures, stadiums, space frames, and so on. It aims to ensure safety, function, durability and cost-effectiveness of these structures. Structural engineers represent a **creative profession** that **makes significant** real-world contributions to our society.

What is Fire Safety Engineering?

Fire Safety Engineering designs the fire protection system of buildings and structures by adopting the scientific and engineering principles of fire dynamics and human behaviour, rules, and expert judgement. This programme covers fire science, fire risk management, fire detection and suppression, psychology, physiology, law and regulations for fire protection, and structural design for fire safety.



Professional Recognition

Full accreditation by The Hong Kong Institution of Engineers (HKIE) will be sought. Graduates of this programme will then be qualified for Scheme A training of HKIE in the disciplines of Civil, Structural and Fire. In addition to corporate membership of HKIE, they may subsequently apply for registration as a professional engineer under the Engineers Registration Board.

Career Prospects

Our graduates are well-prepared for employment as graduate engineers and receiving rewarding salaries in both public and private sectors.

Entrance Requirements

HKDSE Qualification

General Entrance Requirements (332233):

Level 3: English Language and Chinese Language

Level 2: Mathematics and Liberal Studies

Level 3: Any two elective subjects or any one elective subject and Mathematics Extended Module 1 or 2

<u>Preferred subjects with the highest weighting:</u>

- English Language
- Mathematics
- Extended Modules of Mathematics
- Physics
- Combined Science with Physics

Notes:

There is no compulsory subject requirement. The admission score will be calculated based on "Any Best 5 Subjects" mechanism (after subject weightings have been applied). For more details, please visit the website of Academic Registry.

Applicants who have not taken the preferred subjects will still be considered for admission but they may need to take relevant underpinning subjects in order to gain the foundation knowledge.

Other Qualifications

Applicants with other academic qualifications such as GCE and IB will also be considered.

Further Information

Programme Leader

Prof. Zhu, S. Y.

Email: songye.zhu@polyu.edu.hk



















