



Entrance Requirements

- ✓ Graduating students from BEng programmes in building services engineering, building environmental and equipment engineering, mechanical engineering, electrical engineering, thermal engineering, energy and power engineering.
- ✓ Applicants with equivalent qualifications may also apply for admission and will be considered on individual merit.
- ✓ For those applicants who are not a native speaker of English and whose Bachelor's degree or equivalent qualification is awarded by institutions where the medium of instruction is not English, they are expected to fulfill the following English language requirement: an overall Band Score of at least 6 in IELTS; or at least a score of 80 (Internet-based test), 550 (paper-based test) for TOEFL. Individual cases will be considered on their own merit by the Department. Applicants may be required to attend interviews or tests to further demonstrate their language proficiency.

The Department in Numbers

- ✓ 1st BSE Academic Department in Hong Kong, established in 1981;
- ✓ 2nd Times CIBSE Happold Brilliant International Awardee on excellent education in building services engineering;
- ✓ 22nd in Architecture and Built Environment, QS World University Ranking by Subject 2020;
- ✓ 12 Full-time academics and researchers to build up the largest and strongest academic unit in Building Services Engineering worldwide;
- ✓ 182 Internship partners to provide summer trainings; and
- ✓ 5700+ Alumni to become the strongest industry network.



Programme Information

Dr. Horace Mui

Associate Head of Department (Teaching)

Tel: (852) 27665835

Email: horace.mui@polyu.edu.hk

Professor Linda Xiao

Programme Leader

Tel: (852) 27664194

Email: linda.xiao@polyu.edu.hk

Additional information on the programme can be obtained from:

Ms. May Chan

Deputy Admission Officer

Tel: (852) 27667915

Fax: (852) 27657198

Email: maychan.bse@polyu.edu.hk



www.bse.polyu.edu.hk



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學

Department of
Building Services Engineering

屋宇設備工程學系

MEng in Building Services Engineering



- ✓ Full-time One Year
- ✓ Programme Code: 33082
- ✓ Self-financed Programme

Department of Building Services Engineering
屋宇設備工程學系



Master of Engineering Building Services Engineering

The MEng in Building Services Engineering is an integrated master degree programme that covers a study of engineering and related knowledge which is both deeper and broader than a conventional BEng(Hons) in Building Services Engineering. The broadened and deepened knowledge and skill enable graduates to handle and manage engineering projects that are large in scale (both in the size of project and the investment involved) and complex and varied in nature, which require more meaningful collaboration amongst professionals from various disciplines, and may have significant social, economical and environmental impacts.

The programme provides a means for a limited number of the most able graduates from the BEng(Hons) in Building Services Engineering programme or other equivalently qualified students to develop towards leadership roles in the building services engineering profession by completing a Dissertation, studying additional enhanced and extended technical, management and environmental subjects, and receiving extra training in language skills.



Programme Structure

Students who are admitted to this programme undertake, over two semesters, a 9-credit Dissertation, aiming at developing their subject expertise and investigation skills. The dissertation also allows students to develop interpersonal skills by requiring them to plan, coordinate and manage their project work, which involves interacting with others.

Students should study 2 compulsory subjects including 1 management subject and 1 English subject. In addition students should study 5 elective subjects from a wide range of the master-level subjects offered within the master programmes in Building Services Engineering over the two-semester period. The selection of elective subjects is expected to be closely related to the Dissertation project undertaken.

Programme Curriculum

This is a brief summary of the core areas of study. Students will be provided with detailed information on the subjects available upon registration.

- ✓ Building Electrical Services
- ✓ Built Environment
- ✓ Energy Efficiency & Renewable Energy Applications
- ✓ Fire & Safety Engineering
- ✓ Operation & Maintenance & Facility Management
- ✓ Advanced Building HVAC Systems

Dissertation Areas

- ✓ Estimation of fire severity in buildings and heat transfer into structural members
- ✓ Sustainability management
- ✓ Acoustics, noise control and IEQ
- ✓ Building automation
- ✓ Indoor environmental quality and bioaerosols
- ✓ Renewable energy
- ✓ Facility engineering and management
- ✓ Water efficiency, water supply and drainage
- ✓ Electrical engineering
- ✓ Ventilation
- ✓ Occupant behavior and space management
- ✓ Refrigeration
- ✓ Energy saving for building and air-conditioning
- ✓ Lighting/daylighting and human perception to light
- ✓ Fire and safety engineering
- ✓ Air-conditioning

Professional Recognition

Accreditation by the Chartered Institution of Building Services Engineers (CIBSE) as suitable further learning in addition to an accredited BEng (Hons) degree to meet the academic requirement for CEng registration for intake year 2000 onwards has been sought.

BSE Laboratories

- ✓ Acoustics Laboratory
- ✓ Electrical Services Laboratory
- ✓ Fire Engineering Laboratory
- ✓ HVACR Laboratory
- ✓ Piped Services Laboratory
- ✓ Lighting Laboratory
- ✓ Indoor Air Quality and Thermal Comfort Laboratory
- ✓ Intelligent Building Laboratory
- ✓ Renewable Energy and Solar Simulator Laboratory
- ✓ Multi-function Chamber Laboratory
- ✓ Lightning Physics and Protection Laboratory
- ✓ Indoor Air Quality (Bioaerosol) Laboratory
- ✓ Low-carbon Building Technology Laboratory
- ✓ Design and Development Centre

