Government-Funded Programme

Associate of Science in
Building Services Engineering

Division of Building Science and Technology | College of Science and Engineering

Building Services Engineering (BSE) is an interdisciplinary profession to achieve comfort needs of the occupants with the functional requirements of the various types of modern buildings. It involves the design, installation, operation, maintenance and management of all the engineering services associated with the built environment. It also concerns how to apply a wide range of knowledge, skills and advanced technologies to satisfy the human needs, growing complexity of engineering services, and significance of building energy conservation & sustainability and pollution control in environmental impact.

Building services are what makes a building come to life. They include:
- heating and air conditioning, ventilation and refrigeration
- fire detection and protection
- water, drainage and plumbing
- energy supply - gas, electricity and renewable sources
- natural / artificial lighting and building facades
- escalators and lifts
- communication lines, telephones, security and alarm systems
What do you need to study?

The graduates are expected to have a broad-based academic foundation and practical skills in building services engineering to enter into an international workplace or to continue education in local and overseas universities.

Main Subject Areas

- Science for Human Comfort and Health
- Fire Services
- Heating, Ventilation and Air-Conditioning Services
- Plumbing and Drainage Services
- Electrical Services
- Laboratory and Engineering Practical Training
- Integrated Project
- Commissioning, Maintenance and Management
- Project Management and Administration
- Construction Technology

Professional Building Services Engineer
The programme aims to provide a theoretical and practical education for students to become senior technical personnel in the building services engineering discipline. It also provides a solid foundation for their career advancement in the field.

Programme Intended Learning Outcomes (PILOs)

Students should take a more active role in their education and extends learning to beyond classroom by means of combining excellent faculty-centered teaching methodology and student-centered learning techniques in this outcome based programme.

Students will also learn through a variety of activities such as field trips to related industries, summer internship, professional activities, design competitions, seminars by renowned professionals and career talks which are carefully planned to enrich their learning experience and encourage whole person development.

About the Programme

Teaching and Learning Approach
The knowledge and skills from this programme will enable our graduates to pursue broader career interests and become highly adaptable. Examples of relevant jobs study of our Graduates include:

- Assistant Mechanical and Electrical contracting engineer
- Assistant consulting or design engineer
- Assistant building services coordinator in Main contracting firm
- Technical Officer in Government such as Housing Authority
- Technical Officer in quasi-government bodies such as MTRC
- Sales engineer of Mechanical and Electrical equipment suppliers
- Assistant Facility management or maintenance engineer
- Research assistant in universities and educational institutions

Routes to Associate / Corporate Membership through Professional Assessment of The Hong Kong Institution of Engineer shall be referred to the website of membership section http://www.hkie.org.hk