

Code	Title	Abb. Title	Contacts for Information
6315	Bachelor of Engineering in Building Services Engineering	BENG(BSE)	Website: http://www.hku.hk/bse Admissions Tutors: Dr. Sam C. M. Hui Email: cmhui@hku.hk Tel: 2859 2123 Dr. A. T. Chan Email: atchan@hku.hk Tel: 2859 7905 Dr. K. C. Cheung Email: kccheung@hku.hk Tel: 2859 7907

6315 Building Services Engineering

ENTRANCE REQUIREMENTS

- (1) For entry with HKALE qualifications:
 In addition to satisfying the University entrance requirements, candidates for admission shall satisfy the following requirements:
 either
 Grade E or above in 2 AL subjects from the following: Pure Mathematics, Physics or Engineering Science, Applied Mathematics, Chemistry
 or
 Grade E or above in either AL Pure Mathematics or AL Physics or Engineering Science and 2 AS subjects.
- (2) Alternative entry route:
 Holders of Higher Diploma in engineering-related disciplines will be considered.
 Applicants with overseas qualifications will also be considered.

PROGRAMME AIMS AND FEATURES

Building services engineering is an interdisciplinary profession. It involves the specification, design, installation and management of all the engineering services associated with the built environment. With the growing complexity of engineering services in modern buildings and the significance of energy conservation and pollution control, the role of the building services engineer is becoming more and more important.

The aim of this programme is to respond to the growing demand for building services engineers who have a sound knowledge of engineering principles and the ability to apply this knowledge to the complex situations prevailing within the building services industry. The philosophy of the programme is to underpin the knowledge base of engineering with a rigorous and relevant programme of studies of the fundamental principles and their applications. The students will develop transferable skills and knowledge through guided technical courses, laboratory studies, workshop practice, industrial training, design and research projects. The credit-based curriculum

encourages flexible learning and includes complementary studies and elective courses to broaden the students' experience and thinking.

To provide a strong grounding in engineering sciences, this programme has a common first year with the mechanical engineering programme in this University and shares many courses in the two curricula. At present, the programme has courses to cover all the fundamental elements of mechanical engineering, building services design, project and technology management. It also provides a background in such fields as control, energy and environment, material sciences, electrical and electronics engineering. The main emphasis is on the art of applying the engineering principles, intelligent technology and critical system thinking to the innovative design and effective management of building services systems.

As building services design is an integrating subject that often requires interactions with other building professionals, a unique interdisciplinary design project is implemented in the final year of study and is jointly organised by the Departments of Architecture, Civil Engineering and Mechanical Engineering (<http://www.hku.hk/bse/interdisciplinary/>). This project-based course provides an excellent opportunity for our students to develop experience and skills in teamwork, communication, graphics and problem-solving in a real-life situation.

PROFESSIONAL RECOGNITION

The BEng in Building Services Engineering degree programme is fully accredited by the Hong Kong Institution of Engineers for both Building Services and Mechanical Engineering disciplines. Graduates can, after proper training and working experience, obtain the status of Registered Professional Engineer and Chartered Engineer.

CAREER PROSPECTS

Building services engineers are in high demand by industry and employment prospects are good. Our degree programme provides the academic base for a professional career with various types of employers in the private and public sectors including consulting and contracting firms, construction companies, equipment manufacturers and suppliers, building developers and owners, facility and property management companies, power and utilities companies, and government departments (such as Architectural Services Department, Electrical & Mechanical Services Department, and Housing Authority). The analytical and problem solving skills learnt from the programme are also useful in all areas including other engineering, finance, business management and information technology. This will enable our graduates to pursue broader career interests that go beyond engineering.

Some graduates may consider further study through postgraduate degree programmes leading to a master or doctoral degree. The curriculum will provide them with the necessary foundation to pursue higher degree studies locally or overseas.

CONTACTS FOR FURTHER INFORMATION

Website: <http://www.hku.hk/bse>

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