

THE UNIVERSITY OF HONG KONG

Master of Science (Engineering) in Building Services Engineering

Credit Unit Statement

The Master of Science (Engineering) in Building Services Engineering curriculum offers two types of courses, namely taught courses and dissertation. The total study load of the curriculum (72 credits of courses) is under the range of 1440-2160 hours. The majority of courses are 6-credit courses comprising lectures and tutorials. The curriculum also has one 24-credit Dissertation as Capstone Experience. The norm for a 6-credit course represents a range of 120 to 180 hours of student learning activity, whereas a range of 480 to 720 hours of student learning activity will be the norm for a 24-credit Capstone Experience. Courses are assessed through coursework, a written examination, or a combination of coursework and a written examination. The categories of courses are summarized as follows:

Taught courses (6 credits)

These courses aim at providing advanced postgraduate education in the fields of design, management and operational of modern building services engineering systems to practicing engineers or related professionals who wish to acquire new knowledge and keep abreast of technical developments in the building services industry. The total contact hours of these courses are normally 30 hours consisting of lectures and/or tutorials. The assessment is generally based on coursework assignments and written examination. The written examination is normally 2 - 3 hours. The coursework:examination ratio for courses ranged from 20:80 to 100:0.

Dissertation (24 credits)

The Dissertation provides Capstone Experience of the curriculum. The primary aim is to provide students with the opportunity to integrate and hone a variety of skills acquired and extended during their studies, and to significantly deepen their knowledge of a topic of their choice.

The Dissertation will require students to research, compile, analyze, summarize, assess, argue, formulate, structure, and evaluate on engineering problems or design solutions in the area of building services engineering. The Dissertation can be conducted either by a research oriented or design oriented study. The dissertation projects are individual pieces of work undertaken under supervision of a teaching staff member, however, students will be required to take responsibility for the project including organizing equipment and time management. By the end of the study the student should be able to demonstrate a comprehensive understanding of the topic of the dissertation; define a feasible project allowing for time and resource constraints; develop an adequate methodology in the area of study and be able to formulate and test concepts and hypotheses; make optimal use of library resources; access databases, understand their uses and limitations, and extract relevant data; work without the need for continuous supervision.

The total study load is expected to be in the range of 480 to 720 hours, including the Dissertation/ and supporting course components, which might be in form of workshops and/or seminars and/or visits with individual assessment such as quiz and/or project report. The total written output for the dissertation is expected to be around 8,000 words. All assessment results will contribute to the final result of the Dissertation.

Faculty of Engineering

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