THE UNIVERSITY OF HONG KONG

Bachelor of Engineering Degree in Computer Engineering

Credit Unit Statement

The Computer Engineering curriculum offers five types of courses, namely introductory courses, advanced courses, projects, engineering training and internship. The majority of courses are 6-credit courses which are taught through lectures, tutorials, and laboratory sessions aims at equipping students with professional skills and knowledge in mathematics and engineering. The programme also has one 6-credit course Integrated project and one 12-credit course Final Year Project as Capstone Experience. 120 hours of student learning activity (including both contact hours and all other forms of student learning activity) will be the norm for a 6-credit course, whereas 240 hours of student learning activity will be the norm for a 12-credit course, and the contact hours and expected learning outcomes for different groups of courses vary according to the learning modes adopted. Most courses are assessed through practical work (0% - 20%), continuous assessment (0% - 40%) and written examination (40% - 90%), with a few courses to be assessed through 100% continuous assessment. The five categories of computer engineering courses are summarized as follows:

Introductory Courses (6 credits)

These courses aim at providing students with a solid foundation in mathematics, engineering, communication skills and complementary studies including economics, management, legal environment, engineering ethics, etc.

The total contact hours of introductory courses are normally 52 hours consist of a combination of lectures, tutorials and laboratories. The assessment is generally based on assignments, quizzes, course projects, mid-term tests, oral presentation, practical work, laboratory reports (totaling 1,000 to 2,000 words) and written examination. The written examination is normally 3 hours.

The number of and level of assignments, mathematical calculations, course projects and quizzes shall be appropriate for assessing the learning outcome of the students but in all cases written output shall not exceed 3,000 words (laboratory reports not included).

Advanced Courses (6 credits)

These courses aim at providing student with a breadth of knowledge in a broad range of technical courses, in-depth knowledge in selective subjects with special emphasis on topics related to computer engineering, effective communication skills and complementary studies including economics, management, legal environment, engineering ethics, etc.

The total contact hours of advanced courses are normally 52 hours consist of a combination of lectures, tutorials and laboratories. The assessment is generally based on assignments, quizzes, course projects, mid-term tests, oral presentation, practical work, laboratory reports (totaling 1,000 to 2,000 words) and written examination. The written examination is normally 3 hours.

The number of and level of assignments, mathematical calculations, course projects and quizzes shall be appropriate for assessing the learning outcome of the students but in all cases written output shall not exceed 3,000 words (laboratory reports not included).

Projects (6 or 12 credits)

Project courses are under the category of Capstone Experience and may consist of individual or group project over a period of one year to enable students to integrate and consolidate the knowledge gained in various courses, and apply the knowledge to implement a practical system. There are two types of projects: Integrated design project and Senior design project. Students are required to take the Integrated design project at their third year of study whereas the Senior design project are to be taken in their final year of study.

The integrated design project (6 credits) consists of 30-39 hours of timetable work, comprising lectures (4-6 hours) and laboratories (26-33 hours). Students will need to spend additional time in the laboratory beyond the timetabled hours to complete their practical implementation. For the senior design project (12 credits), students are generally expected to spend one-fifth of their work hours on the project over a period of two semesters. The assessment of these courses are based on assignments (for integrated design project only), project presentations and written reports totaling 1,500-3,000 words.

Engineering Training (6 credits)

The engineering training provides students with hands-on workshop training aimed at reinforcing their practical engineering skills. The course consists of 140 hours of tutorials and laboratories. The assessment is based on continuous assessment and the student's log-book report totaling approximately 1,000 words.

Internship (6 credits)

The internship aims at immersing students into work environment where their practical engineering knowledge can be reinforced in applied situations. The summer internship consists of a minimum of 4 weeks of placement in an industrial organization with an engineering environment. Alternatively, students are given the option of joining a one-year Integrated Study-Work Programme on a full-time basis to work in the industry between their third and final year of studies. Students are required to submit a training report after the summer internship or the integrated study-work placement. The assessment is based on the employer's feedback and the training report totaling not more than 1,000 words.

Faculty of Engineering

July 2012