

THE UNIVERSITY OF HONG KONG

Bachelor of Engineering Degree in Industrial Engineering and Logistics Management

(Applicable to students admitted in the 2018-19 academic year and thereafter)

Credit Unit Statement

The Industrial Engineering and Logistics Management 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 12-credit course 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. The programme also has a non-credit bearing Internship. Most courses are assessed through practical work and continuous assessment (20% - 70%) and written examination (30% - 80%), with a few courses to be assessed through 100% continuous assessment or practical work. The five categories of industrial engineering and logistics management 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 ranging from 39 to 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 students 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 industrial engineering, logistics management, effective communication skills and complementary studies including economics, management, legal environment, engineering ethics, etc.

The total contact hours of advanced courses ranging from 39 to 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 (12 credits)

Project course is under the category of Capstone Experience and may consist of an individual 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 an assigned project. The contact hours of instruction of Project is 30 hours. Students are required to take Project in their final year of studies, and are generally expected to spend one-fifth of their work hours on the project over a period of two semesters.

The assessment of the project is based on project presentations and written reports totaling approximately 10,000 words.

Engineering Training (6 credits)

The engineering training course provides students with hands-on workshop training aimed at reinforcing their practical engineering skills. The training will be offered in the summer semester of their second year of study and consists of 180 hours of lectures, tutorials and practice sessions. The assessment is based on continuous assessment and the student's report totaling approximately 5,000 words.

Internship (non-credit bearing)

The internship aims at immersing students into work environment where their practical engineering knowledge can be reinforced in practical situations. The internship consists of a minimum of 6 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 internship or the integrated study-work placement. The assessment is based on the employer's feedback and the training report totaling approximately 5,000 words.

Faculty of Engineering
October 2020