THE UNIVERSITY OF HONG KONG

Credit Unit Statement (CUS) of Taught Programmes

Faculty / Offering Unit: Faculty of Engineering

Programme title: Master of Science in Engineering in Artificial Intelligence in Engineering

Applicable student cohort(s): 2028-29 and thereafter

The Master of Science in Engineering in Artificial Intelligence in Engineering curriculum consists of taught courses and a capstone experience (dissertation). The curriculum requires candidates to complete 72 credits with a total study load of 250 – 308 contact hours and 1440-1680 learning hours. All courses are 6 credits in value, except the 24-credit Dissertation.

There are **two** categories of courses in this programme, as outlined below:

1. Taught courses (6 credits per course)

These courses aim at providing students with advanced education and training in the application of artificial intelligence to various disciplines of engineering. The total study load of each of these courses is normally around 120 hours, including 30-36 contact hours 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 100:00. Assessment methods are decided by the individual teachers. Continuous assessment tasks may include in-class quiz, lab reports, group project, written assignments (totalling no more than 5,000 words) and so on.

2. Dissertation (24 credits)

The Dissertation provides Capstone Experience of the curriculum. Its primary aim is to give individual students an opportunity to handle a practical or research engineering problem within the practical constraints and to present the findings in a precise and concise report under the supervision of a teacher. An important part of Dissertation lies in the way in which the students plan and carry out the tasks, and apply their engineering knowledge sensibly and diligently to solve the problem. The way in which the students present their findings is equally important.

The total study load is expected to be in the range of 480 – 720 hours, including the dissertation itself, oral presentation and supporting course components. The total written output for the dissertation is expected to be around 9,000 – 15,000 words. All assessment results will contribute to the final result of the dissertation and is 100% based on coursework. Contact hours are minimal (10 – 20 hours) because students do independent work under the guidance of a supervisor.

Offering the dissertation as a year-long course allows for comprehensive research, iterative writing processes, time for reflection and synthesis, and professional skill development. This extended timeline ensures students can conduct thorough research, refine their work, and produce a high-quality dissertation work that contributes meaningfully to their field of study.