

THE UNIVERSITY OF HONG KONG

Credit Unit Statement (CUS) of Taught Programmes

Faculty / Offering Unit:	Faculty of Engineering, Department of Mechanical Engineering
Programme title:	MSc(Eng) in Low-Altitude Technology
Applicable student cohort(s):	The students to be admitted in Academic Year 2025-26 and thereafter

The Master of Science in Engineering in Low-Altitude Technology curriculum consists of taught courses and a capstone experience (dissertation). The total study load of the curriculum is 84 credits of courses. The majority of courses are 6-credit courses comprising lectures and tutorials. The curriculum also has one 30-credit Dissertation as Capstone Experience. The total student learning hours of the curriculum is expected to be 2100 hours, which includes 420 contact hours. The norm for a 6-credit course represents a range of 120 to 150 hours of student learning activity, while 750 hours will be the norm for a 30-credit Dissertation. Courses are assessed through coursework, a written examination, or a combination of coursework and a written examination.

1. Taught Courses (6 credits)

These courses aim at providing students with advanced education and training in the field of low-altitude technology. 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 100:00. 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 (30 credits)

The Dissertation provides Capstone Experience of the curriculum. The programme puts strong emphasis on experiential learning in real-world design setting and the capstone project is the main vehicle to achieve this goal. The overall achievement should be the ability to integrate the necessary knowledge to make an innovative design, implementation, or critical assessment relevant to low-altitude technology and to communicate ideas and conclusions effectively. Qualified industrial tutor will be assigned to work together with academic supervisor when the project is primarily carried out in industry. Most typically, a practical engineering problem comes with practical constraints. An important part of the project 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 750 hours, including the project report, oral presentation and supporting course components. The contact hours are around 12-25 hours because students do independent work under the guidance of a supervisor. The total written output for the project is expected to be around 11,000-20,000 words. All assessment results will contribute to the final result of the project and is 100% based on coursework. For the most typical design project, the student is expected to demonstrate his/her awareness of literature knowledge (state-of-the-art), capability to tackle a design task with a certain degree of innovation, improvement over existing performance or insightful analysis of why certain designs do not work as desired. Apart from the technical attributes, this programme also requires the students to demonstrate effective English communication skills in both verbal and written forms. These will form part of the assessment components for the dissertation and qualified English teachers shall sit in the presentation of reports in three stages of the project, literature review, intermediate progress and final project report.