COURSE DETAIL

INTEGRATED CAPSTONE EXPERIENCE

Country
Hong Kong

Host Institution
University of Hong Kong

Program(s)
University of Hong Kong

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Mechanical Engineering

UCEAP Course Number
189

UCEAP Course Suffix
Y

UCEAP Official Title
INTEGRATED CAPSTONE EXPERIENCE

UCEAP Transcript Title
INTEGRATED CAPSTONE

UCEAP Quarter Units
10.00

UCEAP Semester Units

6.70

Course Description

Students are required to undertake a group design project that runs from September to April of the following year. The project topics are stipulated either by teachers or by industrial sponsors. Each project group has two teachers acting as supervisors and an additional teacher serving as moderator. During the course of the project, supervisors communicate with the students and the concerned project sponsor to monitor the project progress. At the completion of the project, each project student presents his/her achievements to the supervisors, moderator and sponsor via a written report and an oral presentation. This course aims to: (1) provide a problem-based learning experience for students to learn how to apply scientific knowledge and team-work approach to tackle design/engineering problems systematically, and (2) strengthen students' inter-personal and communication skills through interaction with teammates, supervisors and sponsors. Typical project activities include: problem identification & definition; research into information pertaining to the problem, design & analysis; materials sourcing; communication; conducting experiments/making prototypes for verification and demonstration of results; writing reports and giving oral presentations.

Language(s) of Instruction
English

Host Institution Course Number
MECH4429

Host Institution Course Title
INTEGRATED CAPSTONE EXPERIENCE

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree
Host Institution Department
Course Last Reviewed 2023-2024

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