

The Hong Kong University of Science and Technology

UG Course Syllabus

[Course Title] Building the Future: Civil Engineering Challenges & Solutions

[Course Code] CIVL 1161

[No. of Credits] 3 Credits

[Pre-/co-requisites] None

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Course Description

This course offers an exploration of civil engineering practices in Hong Kong, with a focus on the solutions engineers implement to address current infrastructure challenges. Students will develop an understanding of how advanced technology and sustainable practices are influencing the built environment.

The course includes a collaborative group project that encourages students to critically analyze recent civil engineering developments globally. Additionally, students may participate in optional site visits to ongoing civil engineering projects and operational facilities, providing practical insights into the skills and competencies necessary for designing, constructing, and managing engineering projects.

By engaging in this course, students will gain knowledge and skills relevant to addressing the infrastructure needs of the future while considering sustainability and resilience in engineering practices.

Assessments:

[List specific assessed tasks, exams, quizzes, their weightage]

Assessment Task	Contribution to Overall Course grade (%)
Video Production/Presentation/ Role Play/Model Design	20%
Project Report (2 Pages)	20%
Final examination	60%

Required Texts and Materials

Lecture Notes, Class Sketches (Via Canvas)

[Optional] Additional Resources

“Civil Engineering and Modern Society” - Ir. K. L. Chung