

**The Hong Kong University of Science and Technology**

**UG Course Syllabus**

[Course Title] **Introduction to Construction Management**

[Course Code] **CIVL 3210**

[No. of Credits] **3**

[Pre-/co-requisites] None

**Name:** [Instructor(s) Name] Prof. Xueqing (Eric) Zhang

**Office:** Room 3571 **Email:** [zhangxq@ust.hk](mailto:zhangxq@ust.hk)

**Course Description**

This course covers basic knowledge, skills, and techniques in construction management, including introduction to the construction industry, initial and feasibility studies, impact assessment, tendering process, local statutory ordinances, contract strategy and management, cost estimation and control, project finance, resource allocation, and site safety.

**The following topics are covered in this course:**

- Basic concepts of construction management
- Bid package preparation
- Issues during the construction phase
- Value engineering
- Construction contracts
- Risk allocation and liability sharing
- Project planning
- Project scheduling
- Equipment ownership
- Cost estimating and control
- Meetings and Negotiations
- Claims and disputes

**Assessments:**

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

<b>Assessment Task</b>	<b>Contribution to Overall Course grade (%)</b>
In-class exercises	10%
homework assignments	10%
Midterm Exam	30%
Final examination	50%

**Required Texts and Materials**

1. Halpin, D. W. (2011). Construction Management, Fourth Edition, John Wiley & Sons, Inc.
2. Fisk, E. R. and Reynolds, W. D. (2010). Construction Project Administration, Ninth Edition, Pearson Education, Inc.