

The Hong Kong University of Science and Technology

UG Course Syllabus

[Course Title] **Mechanics of Materials**

[Course Code] **CIVL 2120**

[No. of Credits] **3**

[Any pre-/co-requisites] **Prerequisites: CIVL 2110 Statics**

Name: [Instructor(s) Name] Prof. Tim K.T. TSE; Prof. Yuxin PAN

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Course Description

[Briefly describe the course content, key topics or themes, objectives, methods of instruction, e.g., lectures, discussions, projects].

Topics to be covered: Analysis of stress, strain and deformation; linear and non-linear material behavior; strain energy; bending of beams, deflection; stability and buckling of compression members; shear and torsional stresses.

Assessments:

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

Assessment Task	Contribution to Overall Course grade (%)
Homework Assignments	20%
Midterm Exam	20%
In-course essay	N/A
Group Project	N/A
Final examination	60%

Required Texts and Materials

“Mechanics of Materials” (7th Edition; SI) by Beer et al., McGrawHill. ISBN: 9780073398235

“Mechanics of Materials” (8th Edition; SI) by Beer et al., McGrawHill. ISBN: 9781260403862