

The Hong Kong University of Science and Technology

UG Course Syllabus

[Traffic and Transportation Engineering]

[CIVL 3610]

[Credit: 3]

[Prerequisites: CIVL 2170]

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Course Description

[For students of the Civil and Environmental Engineering Department only. Introduction to transportation systems; characteristics of transportation models; traffic flow fundamentals; geometric design of highways; travel demand analysis including trip generation, modal split and trip assignment].

Assessments:

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

Assessment Task	Contribution to Overall Course grade (%)
Tutorial quiz	5%
Assignment	5%
Midterm examination	30%
Final examination	60%

Required Texts and Materials

- [1. Transportation Engineering: An Introduction: C.J. Khisty and B.K. Lall, Prentice Hall, 2003
- [2. Transportation Engineering and Planning: C.S. Papacostas & P.D. Prevedouros. Prentice Hall Inc., 2001
- [3. Principles of Highway Engineering and Traffic Analysis: F.L. Mannering, W.P. Kilareski and S.S. Washburn. John Wiley & Sons, 2005]