

The Hong Kong University of Science and Technology

UG Course Syllabus

[Course Title] ENVIRONMENTAL ASSESSMENT AND MANAGEMENT

[Course Code] CIVL2410

[No. of Credits] 3

[pre-requisites] CHEM1010/1020 and CIVL1100

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Course Description

Present current environmental issues and management concepts; apply essential chemical and physical principles required to understand pollution problems; integrate knowledge from science and engineering to solve and assess environmental problems affecting water, air, noise and waste; cover concepts, ordinances and case studies of environmental impact assessment of civil infrastructure projects (Prerequisites: CHEM1010/1020 and CIVL1100).

This course consists of two parts: 1) Lectures about essential concepts and principles in the fields of environmental engineering and management and environmental impact assessment, and 2) an individual self-study on a listed environmental impact assessment (EIA) report. For the self-study of an EIA project report, students are expected to read an executive summary of a listed EIA project available in EPD website to get familiar with the content of EIA report, with emphases on their understanding and appreciation on the EIA project.

Assessments:

Assessment Task	Contribution to Overall Course grade (%)
Examine 1	30%
Examine 2	50%
Homework	20%

Required Texts and Materials

Masters, Gilbert M. and Wendell P. Ela (2014). Introduction to Environmental Engineering and Science, New International Edition. Prentice-Hall, NJ. [Available on-line]

Additional Resources

Davis, Mackenzie L. and David Cornwell (2013). Introduction to Environmental Engineering, 5th edition. McGraw Hill, NY. [Available in the library course reserve.]

List of EIA Reports available at: <https://www.epd.gov.hk/eia/english/register/aeiara/all.html>