Subject Description Form

Subject Code	CSE40462
Subject Title	Environmental Impact Assessment – Theory and Practice
Credit Value	3
Level	4
Exclusion	CSE462 Environmental Impact Assessment – Theory and Practice
Objectives	To provide students with an overview of the principles and current
Intended Learning Outcomes	Upon completion of the subject, students will be able to: a. understand the EIA process; b. analyze major environmental issues for large development projects; c. conduct necessary monitoring and modeling tasks within an EIA cycle; d. function on multi-disciplinary teams; e. understand how the EIA process contributes to environmental protection and sustainable development; and f. to recognize the need for, and to engage in life-long learning.
Subject Synopsis/ Indicative Syllabus	**Keyword syllabus**: (i) Development of Environmental Impact Assessment Historical review: Environmental assessment development in the world and Hong Kong. (ii) Scope and Objectives of Environmental Impact Assessment Environmental considerations: land use, planning, development and management. EIA aims and objectives. (iii) Methodology and Assessment Techniques Methods for air, water, noise and ecology assessment. Other environmental issues (risk, visual, cultural and social-economical impacts). (iv) Monitoring and Baseline Studies Baseline studies, Environmental monitoring and audit, Environmental quality and regulatory requirements, Mitigation and control measures.

<table>
<tr><td></td><td>(v)Environmental Impact Statement
Role of Environmental Impact Statement, Statement scope & content.</td></tr>
<tr><td>Teaching/Learning Methodology</td><td>The subject teaching will include the following elements:

(a) Lectures – to introduce the basic concepts and assessment methods;

(b) Tutorials – to answer student questions in the learning processes;

(c) Group discussion and presentations – to let students play different roles in the EIA process;

(d) Reading materials and video presentations – to give students examples in local EIA case studies;

(e) Seminars by invited speakers from relevant fields, government agencies and professional consultants; and

(f) Course work.</td></tr>
<tr><td>Assessment Methods in Alignment with Intended Learning Outcomes</td><td>
<table>
<tr><td rowspan="2">Specific assessment methods/tasks</td><td rowspan="2">% Weighting</td><td colspan="6">Intended subject learning outcomes to be assessed</td></tr>
<tr><td>a</td><td>b</td><td>c</td><td>d</td><td>e</td><td>f</td></tr>
<tr><td>1. Continuous assessments</td><td>50%</td><td>√</td><td>√</td><td>√</td><td>√</td><td>√</td><td>√</td></tr>
<tr><td>2. Final examination</td><td>50%</td><td>√</td><td>√</td><td></td><td></td><td>√</td><td></td></tr>
<tr><td>Total</td><td>100%</td><td colspan="6"></td></tr>
</table>
Students must attain at least grade D in both coursework and final examination (whenever applicable) in order to attain a passing grade in the overall result.

Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:

Written examination is evaluated by final examination.</td></tr>
<tr><td>Student Study Effort Expected</td><td>
<table>
<tr><td>Class contact:</td><td>Average hours per week</td></tr>
<tr><td>▪ Lectures / Tutorials / Laboratory</td><td>3 Hrs.</td></tr>
<tr><td>Other student study effort:</td><td></td></tr>
<tr><td>▪ Coursework exercise/ Attending seminar and seminar report writing</td><td>1.6 Hrs.</td></tr>
<tr><td>▪ Self Study</td><td>4.4 Hrs.</td></tr>
<tr><td>Total student study effort</td><td>9 Hrs.</td></tr>
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Reading List and References	The following texts provide the majority of the basic materials to be covered in lectures. Students will need to study other relevant publications, including local case studies and approved EIA reports. Barbara Caroll, 2002. *Environmental Impact Assessment Handbook: A Practical Guide for Planners, Developers and Communities*. Thomas Telford, London. Canter, L.W., 1996. *Environmental Impact Assessment*, 2nd Ed., McGraw-Hill. Christopher Wood. 2003. *Environmental Impact Assessment: A Comparative Review*. Prentice Hall, New Jersey. Riki Therivel, Peter Morris, 2001. *Methods of Environmental Impact Assessment*, Spon Press, London. Bram F. Noble, 2010. *Introduction to Environmental Impact Assessment: a guide to principles and practice.* Oxford University Press, Don Mills, Ont. John Glasson, Riki Therivel, 2012. *Introduction to Environmental Impact Assessment.* Routledge, Abingdon. Hong Kong Environmental Protection Department *http://www.epd.gov.hk/eia/*