

## Course Syllabus

offered by School of Energy and Environment with  
effect from Semester A 2022/23

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### Part I Course Overview

**Course Title:** Environmental Impact Assessment: Principles and Practice

**Course Code:** SEE8203

**Course Duration:** One semester

**Credit Units:** 3

**Level:** R8

**Medium of Instruction:** English

**Medium of Assessment:** English

**Prerequisites:** Nil

**Precursors:** Nil

**Equivalent Courses:** SEE6203 Environmental Impact Assessment: Principles and Practice

**Exclusive Courses:** Nil

## Part II Course Details

### 1. Abstract

This course will review the principles, process and methods for assessing environmental impacts and examines the environmental consequence of development project, in advance. It provides students with inter-disciplinary nature of the subject (socio-economic, environmental and ecological systems) as well as critical analysis. Latest EIA legislation, guidance and good practice will be discussed in the context of both HK and overseas.

### 2. Course Intended Learning Outcomes (CILOs)

No.	CILOs	Weighting (if applicable)	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		
			A1	A2	A3
1.	Examine and apply the general principles, processes and methodologies of environmental impact assessment (EIA) in development projects.	20		√	
2.	Explain the approach in socio-economic impact and environmental risk assessments, and the interaction between EIA and landuse planning.	20		√	
3.	Analyze cases, prepare and conduct EIA, and communicate effectively about the complex issues in EIA.	30		√	√
4.	Critically evaluate the problems and issues, limitations and future trends in implementation of EIA.	30	√	√	
		100%			

**A1: Attitude**

*Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.*

**A2: Ability**

*Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to self-life problems.*

**A3: Accomplishments**

*Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.*

### 3. Teaching and Learning Activities (TLAs)

TLA	Brief Description	CILO No.						Hours/week (if applicable)
		1	2	3	4			
Lecture	Explain the key concept, process and practice of EIA, and the relationship between EIA and sustainable development.	√	√	√	√			2 hrs/wk
Tutorial and Group discussion	In large and small group activities students will examine various principles, processes and methodologies of EIA and apply these processes to examples of development projects.	√	√	√	√			1 hr/wk
Case study	Students will discover the	√	√	√	√			

	elements and application of the EIA framework through critical analysis of EIA case studies and develop communication skills through role play exercises and presentations of individual and/or group work.							
Project presentation	In large and small group critical evaluation tasks students will discover the application of the EIA framework to specific situations and discuss the problems and issues, limitations and future trends in implementation of EIA.	√	√	√	√			

#### 4. Assessment Tasks/Activities (ATs)

Assessment Tasks/Activities	CILO No.					Weighting	Remarks
	1	2	3	4			
Continuous Assessment: 60%							
In class test	√	√	√			20	
Assignment	√	√	√			15	
Project presentation	√	√	√	√		25	
Examination: 40 % (duration: 2 hours, if applicable)							
						100%	

To pass a course, a student must do ALL of the following:

- 1) obtain at least 30% of the total marks allocated towards coursework (combination of assignments, pop quizzes, term paper, lab reports and/ or quiz, if applicable);
- 2) obtain at least 30% of the total marks allocated towards final examination (if applicable); and
- 3) meet the criteria listed in the section on Grading of Student Achievement.

## 5. Assessment Rubrics

Applicable to students admitted in semester A 2022/23 and thereafter

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B)	Marginal (B-, C+, C)	Failure (F)
1. In-class test	In tutorial assignments (case studies and scenarios) and end-of-course examination students will apply the range of principles, applications, processes and methodologies to EIA examples.	High	Significant	Moderate	Not even reaching marginal levels
2. Assignment	Tutorial assignments (case studies and scenarios), discussion and end-of-course examination, will enable students to apply EIA concepts to evaluate the socio-economic impact, ecological impact and environmental risks and benefits.	High	Significant	Moderate	Not even reaching marginal levels
3. Project	In a role play report, oral presentation and end-of-course examination students will critically analyze cases, apply knowledge to conduct EIA and communicate effectively in writing and orally about the complex issues in EIA.	High	Significant	Moderate	Not even reaching marginal levels
4. Final exam	In-classroom and out-of-classroom discussion and end-of-course examination, using problem-based questions which require students to critically evaluate problems and issues, limitations and future trends in implementation related to EIA and environmental management.	High	Significant	Moderate	Not even reaching marginal levels

Applicable to students admitted before semester A 2022/23

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Adequate (C+, C, C-)	Marginal (D)	Failure (F)
1. In-class test	In tutorial assignments (case studies and scenarios) and end-of-course examination students will apply the range of principles, applications, processes and methodologies to EIA examples.	High	Significant	Moderate	Basic	Not even reaching marginal levels
2. Assignment	Tutorial assignments (case studies and scenarios), discussion and end-of-course examination, will enable students to apply EIA concepts to evaluate the socio-economic impact, ecological impact and environmental risks and benefits.	High	Significant	Moderate	Basic	Not even reaching marginal levels
3. Project	In a role play report, oral presentation and end-of-course examination students will critically analyze cases, apply knowledge to conduct EIA and communicate effectively in writing and orally about the complex issues in EIA.	High	Significant	Moderate	Basic	Not even reaching marginal levels
4. Final exam	In-classroom and out-of-classroom discussion and end-of-course examination, using problem-based questions which require students to critically evaluate problems and issues, limitations and future trends in implementation related to EIA and environmental management.	High	Significant	Moderate	Basic	Not even reaching marginal levels

## Part III Other Information

### 1. Keyword Syllabus

- Principles, objectives and scope of EIA. Major issues of the EIA process. Administrative and organizational aspects.
- Defining the scope. Identification and evaluation of alternatives. Baseline studies.
- Detailed methodology and process in conducting EIA
- Content, preparation and review of environmental impact assessment.
- Monitoring and auditing of impacts.
- Case studies from developed and developing countries. Specific socio-economic impacts and limitations of EIA in developing countries. Case studies from Hong Kong.
- Risk assessment and management. Problems and constraints of EIA.
- Interaction between EIA, land use planning and engineering designs. Identification and evaluation of mitigation measures.

### 2. Reading List

#### 2.1 Compulsory Readings

1.	Introduction to environmental impact assessment: a guide to principles and practice. B.F. Noble. 2010. Oxford University Press.
2.	Introduction to environmental impact assessment. J. Glasson, R. Therivel, A. Chadwick. 2012. Routledge, New York.
3.	Methods of environmental impact assessment / edited by Peter Morris and Riki Therivel. Routledge, 2009.

#### 2.2 Additional Readings

1.	Environmental Impact Assessment Ordinance (EIAO), EPD ( <a href="http://www.epd.gov.hk/epd/eia/english/legis/index1.html">http://www.epd.gov.hk/epd/eia/english/legis/index1.html</a> )
2.	The Operation of Environmental Impact Assessment Ordinance in Hong Kong, April 1998 – December 2001, EPD ( <a href="http://www.epd.gov.hk/eia/operation/index.html">http://www.epd.gov.hk/eia/operation/index.html</a> )
3.	A Guide to the Water Pollution Control Ordinance, EPD ( <a href="http://www.epd.gov.hk/epd/textonly/english/environmentinhk/water/guide_ref/guide_wpc_wpc.html">http://www.epd.gov.hk/epd/textonly/english/environmentinhk/water/guide_ref/guide_wpc_wpc.html</a> )
4.	Guidelines for Development Projects in Hong Kong, EPD ( <a href="http://www.epd.gov.hk/epd/eia/hb/materials/guidelines.htm">http://www.epd.gov.hk/epd/eia/hb/materials/guidelines.htm</a> ) Focused on Environmental Monitoring and Audit
5.	Technical Memorandum on EIA Process, EPD ( <a href="http://www.epd.gov.hk/epd/eia/english/legis/index3.html">http://www.epd.gov.hk/epd/eia/english/legis/index3.html</a> )
6.	EPD Website ( <a href="http://www.epd.gov.hk">http://www.epd.gov.hk</a> )