

CA4178: HERITAGE AND BUILDING APPRAISAL

Effective Term

Semester A 2022/23

Part I Course Overview

Course Title

Heritage and Building Appraisal

Subject Code

CA - Civil and Architectural Engineering

Course Number

4178

Academic Unit

Architecture and Civil Engineering (CA)

College/School

College of Engineering (EG)

Course Duration

One Semester

Credit Units

3

Level

B1, B2, B3, B4 - Bachelor's Degree

Medium of Instruction

English

Medium of Assessment

English

Prerequisites

Nil

Precursors

Nil

Equivalent Courses

SE4630 Heritage and Building Appraisal

Exclusive Courses

CA4630 Building Design and Appraisal

Part II Course Details

Abstract

The course builds upon that knowledge to consider the building holistically with an emphasis on heritage buildings. It aims to provide the students: (1) an introduction to the control of adaptation and re-use of heritage buildings; an understanding

of the principal factors which influence the design of accommodating, cultural and technological constraints, fire protection and other knowledge relating to heritage buildings; and (2) an appraisal of the built environment; performance evaluation of buildings; and critically evaluating the interaction of building and the environment.

Course Intended Learning Outcomes (CILOs)

CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Relate the design of spaces for heritage buildings;	x		
2	Critically analyze the principles of building performance;		x	
3	Hypothesize the suitability of heritage building designs and assess the ease with which they can be altered;			x
4	Generate schemes on adaptation and reuse of heritage buildings, renovations and refurbishment.			x

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 real-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.

Teaching and Learning Activities (TLAs)

TLAs	Brief Description	CILO No.	Hours/week (if applicable)
1	Studio Project	Design project to revitalize a heritage site/ building	1, 2, 3, 4

Assessment Tasks / Activities (ATs)

ATs	CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Research review of a design project to revitalize heritage site/ building	1, 2	10
2	Mid-term review of a design project to revitalize heritage site/ building	2, 3	20
3	Final review and report of a design project to revitalize heritage site	1, 2, 3, 4	40

4	Critical reading and presentation of a topic in heritage	1, 2	30	
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Continuous Assessment (%)

100

Examination (%)

0

Assessment Rubrics (AR)**Assessment Task**

Research review of a design project to revitalize heritage site/ building

Criterion

- 1.1. ATTITUDE to CHALLENGE conventional strategies in heritage preservation.
- 1.2. ABILITY to ASSESS existing contexts and conditions.

Excellent (A+, A, A-)

Strong evidence of original thinking; good organization, capacity to analyse and synthesize; superior grasp of subject matter evidence of extensive knowledge base.

Good (B+, B, B-)

Evidence of grasp of subject, some evidence of critical capacity and analytic ability; reasonable understanding of issues; evidence of familiarity with literature.

Fair (C+, C, C-)

Student who is profiting from the university experience; understanding of the subject; ability to develop solutions to simple problems in the material.

Marginal (D)

Sufficient familiarity with the subject matter to enable the student to progress without repeating the course.

Failure (F)

Little evidence of familiarity with the subject matter; weakness in critical and analytic skills; limited, or irrelevant use of literature.

Assessment Task

Mid-term review of a design project to revitalize heritage site/ building

Criterion

- 2.1. ABILITY to DEVELOP skills and technique in heritage preservation.
- 2.2. ACCOMPLISHMENT to DEMONSTRATE design alternatives.

Excellent (A+, A, A-)

Strong evidence of original thinking; good organization, capacity to analyse and synthesize; superior grasp of subject matter evidence of extensive knowledge base.

Good (B+, B, B-)

Evidence of grasp of subject, some evidence of critical capacity and analytic ability; reasonable understanding of issues; evidence of familiarity with literature.

Fair (C+, C, C-)

Student who is profiting from the university experience; understanding of the subject; ability to develop solutions to simple problems in the material.

Marginal (D)

Sufficient familiarity with the subject matter to enable the student to progress without repeating the course.

Failure (F)

Little evidence of familiarity with the subject matter; weakness in critical and analytic skills; limited, or irrelevant use of literature.

Assessment Task

Final review and report of a design project to revitalize heritage site

Criterion

- 3.1. ATTITUDE to CHALLENGE issues in heritage preservation.
- 3.2. ABILITY to DEVELOP skills and technique.
- 3.3. ACCOMPLISHMENT to DEMONSTRATE a design of heritage preservation.

Excellent (A+, A, A-)

Strong evidence of original thinking; good organization, capacity to analyse and synthesize; superior grasp of subject matter evidence of extensive knowledge base.

Good (B+, B, B-)

Evidence of grasp of subject, some evidence of critical capacity and analytic ability; reasonable understanding of issues; evidence of familiarity with literature.

Fair (C+, C, C-)

Student who is profiting from the university experience; understanding of the subject; ability to develop solutions to simple problems in the material.

Marginal (D)

Sufficient familiarity with the subject matter to enable the student to progress without repeating the course.

Failure (F)

Little evidence of familiarity with the subject matter; weakness in critical and analytic skills; limited, or irrelevant use of literature.

Assessment Task

Critical reading and presentation of a topic in heritage

Criterion

- 4.1. ATTITUDE to critical READ a topics in heritage.
- 4.2. ABILITY to DEMONSTRATE critical reviews in heritage.

Excellent (A+, A, A-)

Strong evidence of original thinking; good organization, capacity to analyse and synthesize; superior grasp of subject matter evidence of extensive knowledge base.

Good (B+, B, B-)

Evidence of grasp of subject, some evidence of critical capacity and analytic ability; reasonable understanding of issues; evidence of familiarity with literature.

Fair (C+, C, C-)

Student who is profiting from the university experience; understanding of the subject; ability to develop solutions to simple problems in the material.

Marginal (D)

Sufficient familiarity with the subject matter to enable the student to progress without repeating the course.

Failure (F)

Little evidence of familiarity with the subject matter; weakness in critical and analytic skills; limited, or irrelevant use of literature.

Part III Other Information

Keyword Syllabus

Spatial design and planning for heritage buildings. Design consideration for alterations, renovations and refurbishment works for heritage and existing buildings. Appraisal for buildings and the environment. Case studies.

Reading List

Compulsory Readings

Title	
1	Nil

Additional Readings

Title	
1	Building design and development in Hong Kong , City University of Hong Kong. Division of Building Science and Technology. , Hong Kong : City University of Hong Kong Press, 2003.
2	Building design : improving commercial spaces / Elyse Umlauf, Phil Schreiner. , Umlauf, Elyse. [Glen Cove, N.Y.] : Library of Applied Design, c1990.
3	Building design for handicapped and aged persons / Council on Tall Buildings and Urban Habitat, Committee 56 ; Gilda M. Haber, chairman ; Thomas O. Blank, editor ; contributors, Thomas O. Blank ... [et al.]. , New York : McGraw-Hill, c1992.