

# CA29601: PROFESSIONAL PRACTICE

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**Effective Term**

Semester A 2022/23

## Part I Course Overview

**Course Title**

Professional Practice

**Subject Code**

CA - Civil and Architectural Engineering

**Course Number**

29601

**Academic Unit**

Architecture and Civil Engineering (CA)

**College/School**

College of Engineering (EG)

**Course Duration**

One Semester

**Credit Units**

3

**Level**

A1, A2 - Associate Degree

**Medium of Instruction**

English

**Medium of Assessment**

English

**Prerequisites**

Nil

**Precursors**

Nil

**Equivalent Courses**

BST21071 Professional Practice; or BST11171 Professional Practice 1 and BST21272 Professional Practice 2

**Exclusive Courses**

Nil

## Part II Course Details

### Abstract

This course aims to develop your knowledge of the structure of the building industry, architectural professional practice, procedures and professional ethics, and major statutory and non-statutory controls in building and property development of Hong Kong.

### Course Intended Learning Outcomes (CILOs)

| CILOs |   | Weighting (if DEC-A1 DEC-A2 DEC-A3 app.) |   |   |   |
|-------|---|--|---|---|---|
| 1     | Explain the structure of the building industry, the relationship between different parties, and the importance of professional ethics in the building profession and articulate the roles of an architect in the different work stages of a building project. |  | x |   |   |
| 2     | Explain the organization of building control and outline the statutory submission procedures for building works in Hong Kong under the Building Authority.  |  | x |   |   |
| 3     | Discuss the importance of the process and principles of land matters/lease control and planning control in a building project in Hong Kong.   |  |   | x |   |
| 4     | Prepare development potential calculations to demonstrate understanding of statutory and non-statutory control for building works.  |  |   | x |   |
| 5     | Develop a sustainable high-rise building design proposal that complies with the key statutory and non-statutory requirements in Hong Kong.  |  |   |   | 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)**

|   | <b>TLAs</b> | <b>Brief Description</b>  | <b>CILO No.</b> | <b>Hours/week (if applicable)</b> |
|---|-------------|---|-----------------|-----------------------------------|
| 1 | Lecture     | Consists of oral presentations by instructors intended to present information on a particular subject. Other forms of teaching and learning activities will also be used to stimulate students' participation during a lecture.                           | 1, 2, 3, 4, 5   |                                   |
| 2 | Tutorial    | Activity complementary to the lecture classes to provide more opportunities for student-instructor and student-student interaction. Students will be engaged in more detailed discussions on the lecture materials and/or assessment tasks in a tutorial. | 2, 3, 4, 5      |                                   |
| 3 | Seminar     | Consists of oral presentations by instructors and/or external guests, which focuses on a selected topic relating to the integrated studio or the various subject area courses.  | 1, 5            |                                   |

**Assessment Tasks / Activities (ATs)**

|   | <b>ATs</b>  | <b>CILO No.</b> | <b>Weighting (%)</b> | <b>Remarks (e.g. Parameter for GenAI use)</b> |
|---|-------------|-----------------|----------------------|---|
| 1 | Assignments | 1, 2, 3, 4, 5   | 60                   |   |
| 2 | Quiz        | 1, 2, 3, 4, 5   | 20                   |   |

**Continuous Assessment (%)**

80

**Examination (%)**

20

**Examination Duration (Hours)**

1.5

**Assessment Rubrics (AR)****Assessment Task**

Assignments

**Criterion**

- 1.1 Thorough discussion of the importance of the process and principles of land matters/lease control and planning control in a building project in Hong Kong.
- 1.2 Clear and well-organised calculations of development potential demonstrating in-depth understanding of statutory and non-statutory control for building works.
- 1.3 Thorough and skillful development of a sustainable high-rise building design proposal that complies extensively with the key statutory and non-statutory requirements in Hong Kong.

**Excellent (A+, A, A-)**

High

**Good (B+, B, B-)**

Significant

**Fair (C+, C, C-)**

Moderate

**Marginal (D)**

Basic

**Failure (F)**

Not even reaching marginal level

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**Assessment Task**

Quiz

**Criterion**

- 2.1 Clear and comprehensive explanation of the structure of the building industry, the relationship between different parties, and the importance of professional ethics. Thorough attempt to articulate the roles of an architect in the different work stages of a building project.
- 2.2 Clear and comprehensive explanation of the organization of building control. Complete outline of the statutory submission procedures for building works in Hong Kong under the Building Authority.

**Excellent (A+, A, A-)**

High

**Good (B+, B, B-)**

Significant

**Fair (C+, C, C-)**

Moderate

**Marginal (D)**

Basic

**Failure (F)**

Not even reaching marginal level

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**Assessment Task**

Examination

**Criterion**

3.1 Demonstrate a clear and comprehensive explanation of the structure of the building industry, the relationship between different parties, and the importance of professional ethics.

3.2 Demonstrate a clear and comprehensive explanation of the organization of building control and a complete outline of the statutory submission procedures for building works in Hong Kong under the Building Authority.

**Excellent (A+, A, A-)**

High

**Good (B+, B, B-)**

Significant

**Fair (C+, C, C-)**

Moderate

**Marginal (D)**

Basic

**Failure (F)**

Not even reaching marginal level

**Part III Other Information****Keyword Syllabus**

- Organisational structure in building industry: parties involved in building projects; project team members; architectural practices; quality assurance concept.
- Building process: work stages from design inception to post-completion of construction; government controls; tendering process; HKIA normal services.
- Submission procedures: approval and consent of building plans; major government authorities involved; statutory actors; general building plans.
- Town planning: town planning concept; land-use control under Town Planning Ordinance; planning legislation; planning application; development potential; statutory plans; Town Planning Board.
- Land matters: function of the Lands Department; government lease and license; conditions of grant; building and development control under lease; lease enforcement and modifications; Deed of Mutual Covenants.
- Building control: building control to new building works under Buildings Ordinance; building control to existing works under Buildings Ordinance; environmental protection laws; public health and safety building laws; other statutory and non-statutory controls for building development; site supervision system.
- Building design: health and safety; barrier-free access and universal design; sustainable and innovative design.
- Professional ethics: prevention of bribery; professional conduct; integrity and impartiality.

**Reading List****Compulsory Readings**

| Title |     |
|-------|-----|
| 1     | Nil |

**Additional Readings**

| Title |  |
|-------|--|
| 1     | Austin, R. (1984). Site graphics. New York: Van Nostrand Reinhold.   |
| 2     | Building Authority. (2011). Code of practice for fire safety in buildings. Hong Kong: Government of HKSAR. |
| 3     | Building Authority. (2008). Design manual for barrier free access. Hong Kong: Government of HKSAR.         |

|    |   |
|----|---|
| 4  | Chappell, D. and Willis, A. (2005). The architect in practice (9th Ed). Oxford; Malden, MA : Blackwell Pub.   |
| 5  | Division of Building Science and Technology. (2003). Building design and development in Hong Kong. Hong Kong: City University of Hong Kong Press.                       |
| 6  | Government of HKSAR (Latest Edition). Buildings ordinance Cap. 123. Hong Kong: Government of the HKSAR.   |
| 7  | Government of HKSAR (Latest Edition). Building (administration) regulations. Hong Kong: Government of the HKSAR.  |
| 8  | Government of HKSAR (Latest Edition). Building (construction) regulations. Hong Kong: Government of the HKSAR.  |
| 9  | Government of the HKSAR (Latest Edition). Building (energy efficiency) regulations. Hong Kong: Government of the HKSAR.   |
| 10 | Government of HKSAR (Latest Edition). Building (planning) regulations. Hong Kong: Government of the HKSAR.  |
| 11 | Government of the HKSAR (Latest Edition). Building (refuse storage and material recovery chambers and refuse chutes) regulations. Hong Kong: Government of the HKSAR.   |
| 12 | Government of HKSAR (Latest Edition). Building (standards of sanitary fitments, plumbing, drainage works and latrines) regulations. Hong Kong: Government of the HKSAR. |
| 13 | Government of the HKSAR (Latest Edition). Town planning ordinance Cap. 131. Hong Kong: Government of the HKSAR.   |
| 14 | Green, R. (2001). The architect's guide to running a job. Oxford: Architectural Press.  |
| 15 | HKIA. (2000). Agreement between client and architect and scale of professional charges. Hong Kong: Hong Kong Institute of Architects.                                   |
| 16 | Littlefield, D. (2005). An Architect's guide to running a practice. Oxford: Architectural Press.  |
| 17 | Rubenstein, H. (1987). A guide to site and environmental planning (3rd Ed.). New York: Wiley Publishing.  |
| 18 | Russ, T. H. (2002) Site planning and design handbook. New York: McGraw Hill.  |
| 19 | Wong, W. S. and Chan, E. (Eds.) (1997). Professional practice for architects in Hong Kong. Hong Kong: Pace Publishing.  |
| 20 | Wong, W. S. and Chan, E. (Eds.) (2000). Building Hong Kong: environmental considerations. Hong Kong: Hong Kong University Press.  |