

**City University of Hong Kong
Course Syllabus**

**offered by Department of Architecture and Civil Engineering
with effect from Semester A 2017/18**

Part I Course Overview

Course Title:	Design Management
Course Code:	CA6204
Course Duration:	1 Semester (Some courses offered in Summer Term may start a few weeks earlier than the normal University schedule. Please check the teaching schedules with CLs before registering for the courses.)
Credit Units:	3
Level:	P6
Medium of Instruction:	English
Medium of Assessment:	English
Prerequisites: <i>(Course Code and Title)</i>	Nil
Precursors: <i>(Course Code and Title)</i>	Nil
Equivalent Courses: <i>(Course Code and Title)</i>	BC6204 Design Management
Exclusive Courses: <i>(Course Code and Title)</i>	Nil

Part II Course Details

1. Abstract

The overall aim of this course is to provide exposure on various aspects of design management in building construction projects so as to enhance related knowledge and skill-sets of the learning communities. The focus is to enriching students' design management knowledge by covering related management theories and techniques, specific design management roles and responsibilities of key parties e.g. (a) in various stages of preconstruction and construction phases in building projects, and (b) in different procurement/ project delivery systems. Mainly, students shall acquire knowledge regarding design management in construction projects with respect to relevant facets such as systems engineering, requirements engineering, design quality, performance and client/customer satisfaction aspects.

2. Course Intended Learning Outcomes (CILOs)

(CILOs state what the student is expected to be able to do at the end of the course according to a given standard of performance.)

No.	CILOs	Weighting (if applicable)	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		
			A1	A2	A3
1.	appraise the design related roles and responsibilities of design team in various phases of building construction projects (e.g. pre-construction phase, tendering phase, construction phase);		✓	✓	
2.	appraise the design management related deviations in different procurement/ project delivery systems used in the construction industry;		✓	✓	
3.	appraise and recommend good practices targeting excellence with respect to design quality, performance, value, and satisfaction aspects;		✓	✓	
4.	formulate and/ or apply relevant theories, strategies, methods and tools/ techniques for effective and efficient management of design works in the construction industry.		✓	✓	
		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)

(TLAs designed to facilitate students' achievement of the CILOs.)

TLA	Brief Description	CILO No.				Hours / week (if applicable)
		1	2	3	4	
Lectures	On the topics related to Design Management	✓	✓	✓	✓	
Tutorials	On the usage of Design management tools in addressing particular issues	✓	✓	✓		
Assignment	On the application of the knowledge into practices	✓	✓	✓	✓	

Semester Hours:	3 hours per week
Lecture/Tutorial/Laboratory Mix:	Lecture (2); Tutorial (1); Laboratory (0)

4. Assessment Tasks/Activities

(ATs are designed to assess how well the students achieve the CILOs.)

Assessment Tasks / Activities	CILO No.				Weighting	Remarks
	1	2	3	4		
Continuous Assessment: 50%						
Assignment	✓	✓	✓	✓	30%	
Quiz	✓	✓	✓		20%	
Examination: 50% (duration: 2 hours)						
					100%	

To pass a course, a student must obtain minimum marks of 30% in both coursework and examination components, and an overall mark of at least 40%

5. Assessment Rubrics

(Grading of student achievements is based on student performance in assessment tasks/activities with the following rubrics.)

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Fair (C+, C, C-)	Marginal (D)/ Pass (P) on P/F basis	Failure (F)
Assignment	CAPACITY to explore, identify, analyze and develop ideas and strategies to address the design management problems in design project	High	Significant	Moderate	Basic	Not even reaching marginal levels
Quiz	ABILITY to UNDERSTAND and APPLY theories and knowledge to topics related to design management	High	Significant	Moderate	Basic	Not even reaching marginal levels
Examination	ABILITY to UNDERSTAND , and APPLY theories, knowledge, and tools to address the specific management problems in design	High	Significant	Moderate	Basic	Not even reaching marginal levels

Part III Other Information (more details can be provided separately in the teaching plan)

1. Keyword Syllabus

(An indication of the key topics of the course.)

Introduction to design process in construction projects; roles and responsibilities of design team; design deliverables at various phases of project; impacts of different procurement/ project delivery systems on design management functions; overview of design management facets such as design quality, constructability issues, client/customer satisfaction aspects, value engineering fundamentals, managing innovation and creativity, design coordination, communication and information flows; systems and strategies for management of time, cost, resources related to design teams in construction projects; special topics of design management such as design related regulatory requirements and statutory approvals, knowledge management in design firms, design change management, space use analysis, user involvement analysis, design and requirement management, and workplace design management.

2. Reading List

2.1 Compulsory Readings

(Compulsory readings can include books, book chapters, or journal/magazine articles. There are also collections of e-books, e-journals available from the CityU Library.)

1.	Nil
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2.2 Additional Readings

(Additional references for students to learn to expand their knowledge about the subject.)

1.	Gray C., Hughes, W., and Bennett , J. 1994, The Successful Management of Design, University of Reading [Call # TH438 .G72 1994]
2.	Gray C. & Hughes, W. 2001, Building Design Management, Butterworth-Heinemann, Oxford [Call # TH438 .G64 2001]
3.	Lawson, B. 1994, Design in Mind, Butterworth Architecture, Oxford [Call # NA2750 .L38 1994]
4.	RIBA, 1988, Architect’s Job Book: Volume 1 – Job Administration, Fifth edition 1988, RIBA Publications, London [Call # NA1996 .A72 1988 v.1]
5.	RIBA, 1998, The Architect’s Handbook of Practice and Management, Sixth edition, RIBA Publications, London [Call # NA1996 .R65 1998]
6.	Thompson, A. 1999, Architectural Design Procedures, Second edition, Edward Arnold, London [Call # NA2750 .T56 1999]
7.	Mallory-Hill, Preiser, and Watson (ed.), 2012, Enhancing Building Performance, Wiley-Blackwell.
8.	Cherry, 1999, Programming for Design: from Theory to Practice, John Wiley & Sons.
9.	Eastman, Teicholz, Sacks, and Liston, 2008, BIM Handbook: A Guide to Building Information Modeling for Owners, Managers, Designers, Engineers, and Contractors, John Wiley & Sons.
10.	Nicholson, M.P. (2003) Architectural Management [electronic resource], E & FN Spon, London, (EBOOK)
11.	Design Cost & Data (EJOURNAL)