

## Form 2B

# City University of Hong Kong

## Information on a Course

offered by Department of Architecture and Civil Engineering  
with effect from Semester A in 2014/2015

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### Part I

<b>Course Title:</b>	Professional Research Methods
<b>Course Code:</b>	CA5603
<b>Course Duration:</b>	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.)
<b>Credit Units:</b>	3
<b>Level:</b>	P5
<b>Medium of Instruction:</b>	English
<b>Prerequisites:</b>	Nil
<b>Precursor:</b>	Nil
<b>Equivalent Courses:</b>	BC5603 Professional Research Methods
<b>Exclusive Courses:</b>	Nil

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### Part II

#### Course Aims:

To inspire the students a thorough understanding of the basic philosophy and requirements of research works in terms of concepts, methodology, logic thinking and importance of presentation.

#### Course Intended Learning Outcomes (CILOs):

Upon successful completion of this course, students should be able to:

No.	CILOs	Weighting (if applicable)
1.	equip the technique for handling the dissertation with confidence;	---
2.	identify and reflect the basic foundation of scientific research;	---
3.	conduct the research work rigorously and accurately;	---
4.	actually implement the knowledge and produce a small piece of research work without detailed supervision.	---

## Teaching and Learning Activities (TLAs):

(Indicative of likely activities and tasks designed to facilitate students' achievement of the CILOs. Final details will be provided to students in their first week of attendance in this course)

**Semester Hours:** 3 hours per week

**Lecture/Tutorial/Laboratory Mix:** Lecture (-); Tutorial (-); Laboratory (-)

3 hrs/wk for the first 3 weeks, workshop and student presentations for the last 2 weeks.

CILO No.	TLAs	Total Hours (if applicable)
CILO 1	<ul style="list-style-type: none"><li>Lectures and Workshops</li></ul>	3
CILO 2	<ul style="list-style-type: none"><li>Lectures: definition of science and fundamentals of scientific research</li></ul>	3
CILO 3	<ul style="list-style-type: none"><li>Lectures and project</li></ul>	3
CILO 4	<ul style="list-style-type: none"><li>Project</li></ul>	6

## Assessment Tasks/Activities:

(Indicative of likely activities and tasks designed to assess how well the students achieve the CILOs. Final details will be provided to students in their first week of attendance in this course)

**Coursework:** 100%

**Examination:** 0%

CILO No.	Type of assessment tasks/activities	Weighting (if applicable)	Remarks
CILO 1	<ul style="list-style-type: none"><li>Discussions in class</li></ul>	---	<ul style="list-style-type: none"><li>Nil</li></ul>
CILO 2	<ul style="list-style-type: none"><li>Discussions in class</li></ul>	---	<ul style="list-style-type: none"><li>Nil</li></ul>
CILO 3	<ul style="list-style-type: none"><li>Coursework: investigate one problem by two out of five scientific methods</li></ul>	---	<ul style="list-style-type: none"><li>Nil</li></ul>
CILO 4	<ul style="list-style-type: none"><li>Coursework: investigate one problem by two out of five scientific methods</li></ul>	---	<ul style="list-style-type: none"><li>Nil</li></ul>

## Grading of Student Achievement:

### Grading Pattern:

Standard

Refer to Grading of Courses in the Academic Regulations for Taught Postgraduate Degrees.

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## Part III

### Keyword Syllabus:

Philosophy of research; documentation; word processing; presentation; ethics of research; research support; creativity; research types; measurement.

### Recommended Reading:

- **Texts:**
    1. Fellows, R., & Liu A. (eds), 2008, Research Methods for Construction. (3rd Edition). Blackwell Science, Oxford, (TH213.5 .F45 2008)
    2. Greenfield, T. (ed.), 2002, Research Methods for Postgraduates, Arnold, London, (Q180.A1 R47 2002)
    3. McBurney, D. H. 2001, Research Methods (5th Edition), Wadsworth Thomson Learning, Belmont, (BF181 .M22 2001)
    4. Kumar, R. 2011, Research Methodology: A Step-by-step Guide for Beginners (3rd Edition), SAGE, Los Angeles, London, (Q180.55.M4 K85 2011)
    5. Kothari, C.R. 2004, Research Methodology: Methods and Techniques (2nd Revised edition), New Age International (P) Ltd., Publishers, New Delhi, (H62 .K68 2004eb)
  - **Online Resources:**
    1. San Filippo, R.D. 1991, Scientific vs Pseudoscientific Methods, [online]. Available at: [Accessed 11 March 2010].
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