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

Part I

Course Title: Research Methodology
Course Code: CA8022M
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: R8
Medium of Instruction: English
Prerequisites: Nil
Precursor: Nil
Equivalent Courses: BC8022M Research Methodology for Built Environment
Exclusive Courses: Nil

Part II

1. Course Aims:

This course aims to develop the students’ ability to discover and critically apply the research approach and methodology for carrying out research works. The following issues will be outlined in the course: (a) research philosophy including the purpose to transform things ‘believed to be true’ into things ‘known to be true’; (b) research strategy including methodologies of different research areas; (c) research instruments including data collection methods, sources of data, data/ error analyses, verification and validation; (d) report writing including the ways to present the information/ data, proper referencing and acknowledgment; (e) presentation of research findings.

2. Course Intended Learning Outcomes (CILOs):

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

<table>
<thead>
<tr>
<th>No.</th>
<th>CILOs</th>
<th>Weighting (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>demonstrate the investigation ability and skills in defining a problem and understand the ways in which data about a phenomenon should be gathered, analyzed and used;</td>
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<tr>
<td>2.</td>
<td>identify, select and critically appraise a body of literature, verification and validation related to a specific research topic;</td>
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<td>3.</td>
<td>apply and display written communication skills and conduct oral presentation for a subject area.</td>
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3. Teaching and Learning Activities (TLAs):

Semester Hours: 3 hours per week
Lecture/Tutorial/Laboratory Mix: Lecture (-); Tutorial (-); Laboratory (-)
Lec/ Tut/ Self-learning mixed mode: 39 hours intensive teaching. The course will be offered outside Hong Kong.
<table>
<thead>
<tr>
<th>CILO No.</th>
<th>TLAs</th>
<th>Total Hours (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CILO 1</td>
<td>● Lecture/ tutorial, workshop and self-learning: demonstrate the investigation ability and skills in defining a problem and research into it;</td>
<td>12</td>
</tr>
<tr>
<td>CILO 2</td>
<td>● Lecture/ tutorial, discussion and presentation: identify, select and critically appraise a body of literature, verification and validation;</td>
<td>21</td>
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<tr>
<td>CILO 3</td>
<td>● Self-practicing, group discussion: apply and display written communication skills in the presentation and conduct oral presentation.</td>
<td>6</td>
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</table>

4. Assessment Tasks/Activities:

Coursework: 100%
Examination: 0%

<table>
<thead>
<tr>
<th>CILO No.</th>
<th>Type of assessment tasks/activities</th>
<th>Weighting (if applicable)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>CILO 1</td>
<td>● Writing and verbal presentation of a research paper</td>
<td>---</td>
<td>● Nil</td>
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<tr>
<td>CILO 2</td>
<td>● Writing and verbal presentation of a research paper</td>
<td>---</td>
<td>● Nil</td>
</tr>
<tr>
<td>CILO 3</td>
<td>● Verbal presentation of a research paper</td>
<td>---</td>
<td>● Nil</td>
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</table>

5. Grading of Student Achievement:

Grading Pattern:

Standard

Part III

Keyword Syllabus:

There is no fixed formal syllabus. Research philosophy, research strategy and methodologies, data collection, analysis and used, report writing and presentation will be outlined in the course. Ways in which data about a phenomenon should be gathered, analyzed and used will be discussed.
Recommended Reading:

- **Texts:**

- **Online Resources:**