### SUBJECT DESCRIPTION FORM

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<th><strong>Subject title:</strong></th>
<th>Information Management for Construction and Real Estate</th>
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<td><strong>Subject code:</strong></td>
<td>BRE511</td>
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<td><strong>Credit value</strong></td>
<td>3</td>
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**Responsible staff and department:**

Dr. Andy Wong (BRE)

**Pre-requisite:** Nil

**Recommended background knowledge:**

Students are expected to possess knowledge of the construction and real estate industries such as would be acquired through study on a degree in a built-environment discipline.

**Mutual exclusions:** Nil

**Learning approach:**

Topics related to information systems and project based systems will be introduced by a sense of initial lectures, these lectures will also serve to guide the student to various reference materials. Case studies and small group discussion will bring out initial solutions. Final presentations will be made to the main group for constructive criticism. Topics related to the functionality of software solutions will be learnt by short workshop sessions. Initial instruction will be provided by leading industry professionals. The students be required to show their understanding and critical evaluation through the identification, analysis, evaluation and presentation of a solution to a real life management problem of their own choosing.

**Contact hours:**

- Lectures and seminars: 21 hours
- Tutorial and workshops: 21 hours

**Independent study:**

- Self study material: 50 hours
- Assignments: 48 hours

140 hours

**Assessment:**

Continuous assessment: 100%
Objectives:

On completion of this subject the student will:

1. Understand the basic concepts of planning, organizing and controlling information within construction related organizations.

2. Understand contemporary issues in the management of information at project and organization level.

3. Be capable of applying this understanding within their organization through the selection, development, testing and implementation of information systems.

Keyword syllabus:

Information systems: information management; e.g. information distribution, access, securing and control; the strategic management of information and communication technologies assessing the business benefits of information technologies, knowledge management, IT and organization change.

A critical renew of current systems and management procedures within the construction industry; relevant legislation and social impact of information systems, ownership and copyright issues, integrated property and construction industry databases, construction project based systems.

Case studies from both large and small construction organizations will be used to illustrate current systems within the industry.

Indicative reading list and references:


Electronic Journal of Information Technology in Construction (http://www.itcon.org.)

The IT Construction Forum, a resource centre for IT in construction (http://www.itconstructionforum.org.uk.)