Course Title: Information Technology in Banking and Finance
Course Code: IBF610
No. of Credits/Semester: 3
Mode of Tuition: Lectures
Teaching Hours: 39
Prerequisites: None.

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Office</th>
<th>Phone</th>
<th>E-Mail</th>
<th>Home Page</th>
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<tbody>
<tr>
<td>Dr. Alfred Loo</td>
<td>BUG10</td>
<td>2616 8091</td>
<td><a href="mailto:alfred@ln.edu.hk">alfred@ln.edu.hk</a></td>
<td><a href="http://cptra.ln.edu.hk/~alfred">http://cptra.ln.edu.hk/~alfred</a></td>
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Course Description

This course shows how the automation of routine tasks has led to re-engineering corporations, including costs and benefits analysis for IT, E-commerce, electronic payment. It will also cover problems created by incompatible systems, differing roles for computer based systems, methods of control and security over computerised financial transactions.

Course Objectives

On Completion of this course, students should be able to:

1. understand how information technology has changed the structure, administration and delivery of services within banking and finance;
2. evaluate the factors which can determine the success and failure of major IT development projects;
3. appreciate the strengths and weakness of different types of controls
4. identify the opportunities and risks associated with the development of banking services on the Internet.
Indicative Contents

1. Implementation of IT in Banking and Finance
   1.1. Automation and re-engineering
   1.2. Brief history of IT applications
   1.3. Differentiation and collaboration
   1.4. Success and failure factors of IT projects
   1.5. Business Model

2. Effectiveness and Value for Money
   2.1. Evaluating benefits, costs and other issues
   2.2. Methods for evaluating and justifying IT investment
   2.3. IT Economic Strategies

3. Managing IT Security
   3.1. Basic Concepts in Computer Security
   3.2. Encryption and Related Techniques
   3.3. Methods for Risks Identification
   3.4. Risk Assessment and Management
   3.5. Countermeasures and Management Control
   3.6. Computer Auditor in Banking and Finance
   3.7. Business Continuity and Disaster Recovery Plan

4. Electronic Commerce
   4.1. Different Approaches to Trading across the Internet
   4.2. Risk, Liability and Taxation
   4.3. Electronic Credit Card
   4.4. Roles of Banks
   4.5. Requirements for Electronic Trading
   4.6. Mobile Computing and Commerce

5. Electronic Payment
   5.1. Barriers to Cashless Society
   5.2. Digital Cash and Impact on Banks
   5.3. Electronic Credit Card
   5.4. Electronic Fund Transfer
   5.5. Electronic Check
   5.6. Micropayment

Assessment

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<thead>
<tr>
<th>Attendance and Participation</th>
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<tr>
<td>Mid-term Test</td>
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<tr>
<td>Project</td>
<td>30%</td>
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<tr>
<td>Final Exam</td>
<td>50%</td>
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<tr>
<td>Total</td>
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Students are assessed throughout the term on their attendance, cases studies, class participation, projects, etc.
Course Website

Course materials (projects, presentation slides) and information related to the course will be maintained on the website. Students can access this website through the WebCT. Students are advised to check on this website frequently.

Required Textbook


Supplementary Readings:


Course Website

Course materials (projects, presentation slides) and information related to the course will be maintained on the website. Students can access this website through the WebCT. Students are advised to check on this website frequently.

Additional Information

**Classroom disciplines:** General rules should be observed. It is absolutely unacceptable to use mobile phones or pagers during classes. Students are expected to attend every class. Punctuality is also very important.