Programme Objective

• To educate information systems professionals who are able to develop and manage user-centered information systems

• Rationale
  – ICT sector continues to be an important industry sector, but
  – Programming and technical skills are necessary but no longer sufficient
  – Combination of technical know-how and value-added soft skills needed
Essential Skills for IS Professionals

Software Development & Infrastructure

Human Computer Interaction

Management of Systems and Services

Information Management

Information Systems Professional
Essential Skills for IS Professionals

1. Software Development and Infrastructure
   – Knowledge required for the design, development and maintenance of information systems
     • Software engineering concepts and techniques
     • Web and mobile applications development
     • Interactive media development
2. Human Computer Interaction

- Knowledge for designing information systems that are both useful and usable from an end-user perspective
  - Usability evaluation techniques
  - Methods for designing usable systems
  - Information visualisation techniques

Essential Skills for IS Professionals
3. Information Management

- Skills needed to store, organise, preserve and manage information in a way that allows for their reliable, timely and accurate retrieval and use
  - Information architecture and design
  - Information retrieval techniques
  - Data and text mining
4. Management of Systems and Services

- Skills required for managing information systems projects, information systems personnel and resources
  - Managing software projects and teams
  - Managing and evaluating software quality
  - Information systems outsourcing
Key Features of the Programme

• Broad-based education focusing on four key areas in information systems
• Opportunities for conducting research and development projects
• Experienced, multi-disciplinary faculty from a school with established graduate-level programmes
Programme Duration

<table>
<thead>
<tr>
<th>Mode</th>
<th>Minimum</th>
<th>Maximum</th>
<th>No. of courses per semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time</td>
<td>1 years</td>
<td>2 years</td>
<td>Up to 5 courses</td>
</tr>
<tr>
<td>Part-time</td>
<td>2 years</td>
<td>4 years</td>
<td>Up to 3 courses</td>
</tr>
</tbody>
</table>
# Programme Structure

<table>
<thead>
<tr>
<th>Software Development &amp; Infrastructure</th>
<th>Human Computer Interaction</th>
<th>Information Management</th>
<th>Management of Information Systems &amp; Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI6203 Software Engineering</td>
<td>CI6202 Information Architecture and Design</td>
<td>CI6205 Database Systems</td>
<td>CI6204 Software Project Management</td>
</tr>
<tr>
<td>CI6206 Internet Programming</td>
<td>CI6207 Human Computer Interaction</td>
<td>CI6226 Information Retrieval and Analysis</td>
<td>CI6228 Managing Information Systems</td>
</tr>
<tr>
<td>CI6222 Mobile and Ubiquitous Applications</td>
<td>CI6220 Usability Engineering</td>
<td>CI6227 Data Mining</td>
<td>CI6229 Management of Information Systems Outsourcing</td>
</tr>
<tr>
<td>CI6225 Enterprise Applications Development</td>
<td>CI6221 Information Visualisation</td>
<td>CI6235 Applied Artificial Intelligence</td>
<td>CI6231 Security Policy and Strategy</td>
</tr>
<tr>
<td>CI6230 Information Systems Security</td>
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</tbody>
</table>
Programme Structure – Option of Study

‘Coursework Only’ Option
- 9 Courses
- Critical Inquiry in Information Systems

‘Coursework & Dissertation’ Option
- 8 Courses
- Dissertation (equivalent to 2 courses)

- Students may take up to 3 courses from other Master’s programmes subject to approval
Programme Structure – Suggested Study Pathways

Full-time Students

Semester 1: 5 Courses

Semester 2: 4 courses + Critical Inquiry

OR

3 courses + Dissertation

- Average completion time 2-3 semesters depending on study option and individuals’ schedule
Programme Structure – Suggested Study Pathways

Part-time Students – ‘Coursework & Dissertation’ Option

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Courses</td>
<td>3 Courses</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Semester 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 course + Dissertation</td>
<td>2 Courses</td>
</tr>
</tbody>
</table>

- Average completion time 4-5 semesters depending on study option and individuals’ schedule.
## Programme Structure – Suggested Study Pathways

### Part-time Students – ‘Coursework Only’ Option

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td>2 Courses</td>
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</table>

<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Semester 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 courses + Critical Inquiry</td>
<td>2 Courses</td>
</tr>
</tbody>
</table>
Instructional Methods

• Class timings
  – Weekday: 3 hours per course (day or night); night classes are from 6.30pm to 9.30pm
  – Saturday: Full day (10.00am to 5.00pm)

• Mode of Delivery
  – Lectures
  – Class activities (term paper, research paper, written reports, essays, articles, case studies, quizzes, individual and/or group projects, assignments, presentation and so on)

• Course Assessment and Grading
  – Some courses do not have an examination component and are 100% continual assessment (CA) based
  – CA can constitute group and/or individual activities
  – Courses with examination component are assessed using a combination of a final examination (usually 50% to 60% weightage) and CA (usually 40% to 50% weightage)
Admission Requirements

- A Bachelor’s degree in areas such as Computer Science, Information Systems, Information Technology; or
- A Bachelor’s degree with a strong information technology-related component such as those in Engineering or the Sciences; or
- A Bachelor’s degree plus relevant working experience
- Foreign students from Universities whose medium of teaching is not in English, an English proficiency test e.g. TOEFL, IELTS, etc. is required:
  - Minimum TOEFL score: 600 (paper-based), 250 (computer-based) or 100 (Internet-based)
  - Minimum IELTS score: 6.5
  - The IELTS sub-scores should not be less than 6.5
Wee Kim Wee Legacy Fund Graduate Scholarship

• Awarded to **TOP TWO students** from the MSc in Information Systems programme after the end of first semester (August – November).

• Based on best academic performance
What Our Graduates Do

• **Majority are directly related to the degree**
  – Software engineering or development
  – Data analytics
  – User experience design
  – System/database/network administration
  – Project management
  – Research and development
  – Lecturing, education

• **Career progression**
  – Senior positions within same path
  – Management or consulting roles