### Subject Description Form

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>COMP3122</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject Title</td>
<td>Information Systems Development</td>
</tr>
<tr>
<td>Credit Value</td>
<td>3</td>
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<tr>
<td>Level</td>
<td>3</td>
</tr>
<tr>
<td>Pre-requisite / Co-requisite/ Exclusion</td>
<td>Pre-requisites: COMP 2411</td>
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</tbody>
</table>

### Objectives
- To provide orientation and understanding of the information systems development and opportunities for the enterprise.
- To understand and apply the methodologies of analyzing enterprise business, information architecture and information systems integration.
- To understand and apply project management theory and principle.

### Intended Learning Outcomes
Upon completion of the subject, students will be able to:

*Professional/academic knowledge and skills*
- (a) possess an overview picture of enterprise information system environment;
- (b) prepare, design, and implement enterprise information systems in organizations;
- (c) understand management issues in enterprise information systems project implementation;

*Attributes for all-roundedness*
- (d) improve their critical thinking skills and analytical skills through case studies and group discussion of enterprise information systems development;
- (e) enhance their team working skills, technical report writing and presentation skill through enterprise information system implementation projects.

### Subject Synopsis/Indicative Syllabus
1. Information system environment
   - Introduction to enterprise information systems, common enterprise resource planning modules, systems architecture of enterprise information systems.
2. Information system project planning
   - System requirement, development and management: requirement engineering; scope planning; change control.
   - Activity planning: project scheduling, critical path method; PERT evaluation of uncertainty, critical chain approach, resource allocation, estimation technique.
   - Software project management: risk management, managing people in virtual projects, outsourcing.
### Teaching/Learning Methodology

This subject emphasizes both theoretical and practical aspects of enterprise information systems development. It is intended to provide students with knowledge and practical experience on conducting information systems project development and implementation. Enterprise systems and related exercises will be provided in laboratory and tutorial sessions.

### Assessment Methods in Alignment with Intended Learning Outcomes

<table>
<thead>
<tr>
<th>Specific assessment methods/tasks</th>
<th>% weighting</th>
<th>Intended subject learning outcomes to be assessed (Please tick as appropriate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Assignments, Tests &amp; Projects</td>
<td>70%</td>
<td>✔️ ✔️ ✔️ ✔️ ✔️</td>
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<tr>
<td>2. Exam</td>
<td>30%</td>
<td>✔️ ✔️ ✔️ ✔️ ✔️</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
<td>✔️ ✔️ ✔️ ✔️ ✔️</td>
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### Student Study Effort Expected

- **Class contact:**
  - Lecture: 39 Hrs.
  - Tutorial/Lab: 0 Hrs.

### Reading List and References