

<b>Pre-Requisite Modules code(s)</b>	<b>Co-Requisite Modules code(s)</b>	<b>ECTS credits</b>	<b>Module Code</b>	<b>Module Title</b>
		5	CMPU4026	Enterprise systems infrastructure and architecture

#### 8.7.4. Enterprise systems infrastructure and architecture

**Module author:** Enterprise systems infrastructure and architecture group.

#### Module Description:

This module covers the range of enterprise architectures and enterprise application systems that are used within organisations. It introduces the students to basic strategic formulation and implementation and how to evaluate an enterprise system's ability to formulate and implement different strategic objectives.

#### Module aim

The aim of this module is to provide students with knowledge of the purpose design and context of enterprise systems and how to align enterprise systems infrastructure to organisational strategies.

#### Learning Outcomes:

On completion of this module, the learner will be able to:

- Explain the concepts of enterprise wide IT systems and enterprise system architecture concepts.
- Describe the various processes within the organisation supported by Enterprise systems.
- To formulate and implement I.T. strategies for an organisation.
- Appraise how elements of enterprise systems can be used to produce information required to support organisational strategy.
- Evaluate the major considerations for enterprise systems infrastructure and architecture selection.
- Analyse and evaluate how to align enterprise systems infrastructure and architecture with organisational strategic formulation and implementation.

#### Learning and Teaching Methods:

This module will employ teaching methods and learning situations such as lectures, seminars and tutorials, as well as case studies.

#### Module content:

- *I.T. systems in the Organisation:* Describe common types and application areas: e.g. database systems, ERP systems, decision support systems, Internet/intranet/extranet systems and client server systems.
- Organisational enterprise system processes, including supply chain related processes, finance and human resources and IT infrastructure.
- *Strategic Management:* A description of how organisations formulate, implement strategies.

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- Strategic information systems: Evaluate how data warehousing, data mining and OLAP are used to derive information critical to strategic formulation.
- *Strategic enterprise systems*: discussion on how I.T. infrastructure aid organisations to develop and choose strategic decisions.
- *Enterprise System architecture requirements*: a description of the major critical factors used to evaluate different enterprise system architectures.

### Module Assessment:

Continuous assessment (30%): It will take a form a formal report discussing and analysing different enterprise systems architectures that are appropriate for organisation(s) with specific strategic goals

Written examination (70%): A two hour end of semester written exam.

### Essential Reading:

David F.R. 2007 Strategic Management: concept and cases 11 edition, Pearson ISBN: 0-13-186949-3.

George M. Marakas (2005) Decision Support Systems in the 21st Century, 2nd Edition

### Supplemental Reading:

Recent readings to be supplied before the commencement of the module

### Web references, journals and other:

To be supplied during the running of the module.

### Further Details:

2-hour lecture, and 1-hour tutorial. To be delivered in one semester.