

Title:	ENTERPRISE ARCHITECTURE
Code:	ITECH7233
Faculty / Portfolio:	Faculty of Science and Technology
Level:	Advanced
Pre-requisites:	ITECH1005
Co-requisites:	Nil
Exclusions:	Nil
Credit Points:	15
ASCED Code:	029999

Objectives:

The objectives of this course are to introduce students to mainstream enterprise architecture (EA) frameworks (EAFs) used in the industry today (e.g., Gartner's EAF, Zachman Framework, etc.) and become familiar with the underlying reference model that should be used to relate to them, understand their relative merits, and leverage them to support industry-specific needs. As part of the course, students will learn practically how to identify key enterprise components that should be managed by an EAF and how to structure and leverage an EAF to facilitate the alignment of business and technology models in a modern organization.

After successfully completing this course, students should be able to:

Knowledge:

- K1.** Understand enterprise architecture principles and purpose;
- K2.** Understand modelling approaches for enterprise architecture definition and communication; key enterprise architecture approaches, standards, and frameworks;
- K3.** Understand best practice processes of development of enterprise architecture, including key success factors;

Skills:

- S1.** Critically analyse and evaluate alternative enterprise architecture approaches; identify and evaluate gaps and opportunities in different enterprise architecture models and processes; and identify critical success factors for common enterprise architecture approaches.
- S2.** Develop appropriate enterprise architecture principles, models of different aspects of the enterprise architecture processes and artefacts, and architectures at different levels, including conceptual and technical,
- S3.** Define appropriate enterprise architecture approaches and processes for different organizations,
- S4.** Produce suitable written documentation and models, and to produce and deliver

Course Outline

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presentation material for formal and informal oral presentations relating to enterprise architectures, for all appropriate audiences,

S5. Apply practice approaches and models for documenting enterprise architectures.

Values:

- V1.** Appreciate the importance of enterprise architecture;
- V2.** Value the significance of appropriate enterprise architecture principles, models of different aspects of the enterprise architecture processes;
- V3.** Appropriate interaction with stakeholders when developing and communicating enterprise architectures; team formulation, dynamics & diagnostics.

Content:

Topics may include:

- Introduction to Enterprise Architecture
- Architecture Principles and Methodologies
- Enterprise Architecture Frameworks
- Foundation for Execution in an EAF Context
- Reference Architectures
- Enterprise Architecture Governance Model
- Enterprise Reference Architecture Blueprinting
- EA Transformation and Management
- EA Development Process
- EA: Best Practices

Assessment:

This course involves lectures, tutorials, small groups and self-directed learning. Lectures will introduce students to the topics and resources, but students will be expected to explore the issues through their own reading and to share their knowledge and ideas through research, presentations and participation in class discussion.

Assessment Task	Assessment Type	Weighting
Class activities, lectures, self-directed or group exploration Exercises	Assignments/Presentations	30-50%
Review and practice of skills and knowledge	Tests/Examination(s)	50 - 70%

Adopted Reference Style:

APA

Presentation of Academic Work: