

London South Bank University

Enterprise Architecture

BIF-5-ENA

<https://vle.lsbu.ac.uk/>

School of Engineering

2015/16

Level 5

Table of Contents

1.	Module Details	3
2.	Short Description.....	3
3.	Aims of the Module	3
4.	Learning Outcomes.....	3
4.1	Knowledge and Understanding	3
4.2	Intellectual Skills.....	3
4.3	Practical Skills	3
4.4	Transferable Skills.....	3
5.	Assessment of the Module.....	3
6.	Feedback	4
7.	Introduction to Studying the Module	4
7.1	Overview of the Main Content.....	4
7.2	Overview of Types of Classes	4
7.3	Importance of Student Self-Managed Learning Time	4
7.4	Employability	4
8.	The Programme of Teaching, Learning and Assessment	4
9.	STUDENT EVALUATION	5
10.	Learning Resources	5
10.1	Core Materials	5
10.2	Optional Materials	5
	NOTES.....	5

1. MODULE DETAILS

Module Title:	Enterprise Architecture
Module Level:	Level 5
Module Reference Number:	BIF-5-ENA
Credit Value:	20
Student Study Hours:	200
Contact Hours:	75
Private Study Hours:	125
Pre-requisite Learning (If applicable):	None
Co-requisite Modules (If applicable):	None
Course(s):	Informatics Framework
Year and Semester	2013/4 Semester 1
Module Coordinator:	Nigel Phillips
MC Contact Details (Tel, Email, Room)	7437, phillinp@lsbu.ac.uk, FW202
Teaching Team & Contact Details (If applicable):	Fintan Culwin, 7446, fintan@lsbu.ac.uk , FW207
Subject Area:	Computer Science and Informatics
Summary of Assessment Method:	60% Coursework, 40% Examination
External Examiner appointed for module:	Peter Duncan

2. SHORT DESCRIPTION

This module will introduce you to the concept of the Enterprise Architecture – the high-level internally compatible representations of an organisations business models, data, applications, and information technology infrastructure. Being able to understand and develop the enterprise architecture is a key skill set for ensuring that the IT capabilities are fully aligned with the general organisational goals.

This introduction focuses on the component architectures of the IT Infrastructure, including networking technology, data centres, and so on and will introduce you to the IT management and control frameworks COBIT, ITIL and TOGAF.

3. AIMS OF THE MODULE

This module aims to develop a clear understanding of the key components of the IT infrastructure and the standard approaches to modelling and representing them for the purpose of aligning them with business goals. To this end the module aims to ensure you are familiar with the ITIL, TOGAF and COBIT frameworks for managing and monitoring IT infrastructure operations and development.

4. LEARNING OUTCOMES

4.1 Knowledge and Understanding

- Explain the high-level components of the IT infrastructure
- Compare and contrast frameworks for enterprise architecture

4.2 Intellectual Skills

- Apply frameworks (eg ITIL and COBIT) to specific problems to ensure IT infrastructure alignment with business goals

4.3 Practical Skills

- Construct and interpret IT infrastructure models

4.4 Transferable Skills

- Abstract problem solving

5. ASSESSMENT OF THE MODULE

The module is assessed by a coursework assignment worth 60% and an examination worth 40%.

For the assignment you will create a model repository using Visual Paradigm. The repository should contain BPMN (Business Process Modelling Notation) and UML diagrams representing all the processes,

functions and main artefacts recommended by ITIL and TOGAF. There will be two assessment points one in week 7 and one in week 13.

NOTE: - you will need to submit your models on a USB memory stick. You will need two copies of your work so that you can continue working while your first submission is being accessed.

The examination will contain 3 sections. You must answer all questions from section which accounts for 50% of the available marks and one question from section B and one question from section C which will be worth 25% of the marks each. Section A will cover general aspects of enterprise architecture and modelling, section B will contain ITIL related questions and section C TOGAF related questions.

6. FEEDBACK

Your tutors will give feedback on your work each week. Your first submission will be marked and return by week 10.

7. INTRODUCTION TO STUDYING THE MODULE

7.1 Overview of the Main Content

This module covers the management frameworks ITIL and TOGAF and provides experience in developing architectural model repository using an industry standard modelling tool.

7.2 Overview of Types of Classes

Each week you will be introduced to a key aspect of a framework the lecture. Most of your time in the laboratory sessions will be taken up with modelling the processes and artefact introduced in the lecture. Lecture are on Monday afternoons and tutorial are on Monday morning so that the work in the tutorial will follow the lecture from the previous week allowing plenty of time to complete required reading, and practice the modelling.

7.3 Importance of Student Self-Managed Learning Time

In order to get the most from the module it is important that you read the appropriate online material relevant to that week and that you attempt to model the processes and artefact before the laboratory sessions so that you can benefit from the help and guidance of your tutor.

7.4 Employability

Designing and managing enterprise architectures is consider a core competence that any IS/IT graduate should have by all the leading IS/IT professional bodies including ACM, IEEE, and BCS

8. THE PROGRAMME OF TEACHING, LEARNING AND ASSESSMENT

Week	Seminar	Lecture	Comments	Week Beginning
1	Preliminaries	Introduction		28 th Sept 2015
2	The ICT Department Visual Paradigm	BPMN ITIL Strategy		5 th Oct 2015
3	Modelling processes with BPMN	ITIL Design		12 th Oct 2015
4	Assignment pt 1	ITIL Transition		19 th Oct 2015
5	Assignment pt 1	ITIL Operations		26 th Oct 2015
6	Assignment pt 1	ITIL Continuous Service Improvements		2 nd Nov 2015
7	Assignment pt 1	TOGAF ADM Preliminary phase	Assignment part 1 submission	9 th Nov 2015

8	Assignment pt 2	A & B		16 th Nov 2015
9	Assignment pt 2	C		23 th Nov 2015
10	Assignment pt 2	D & E		30 th Nov 2015
11	Assignment pt 2	F, G & H		7 th Dec 2015
12	Assignment pt 2	Overflow		14 th Dec 2015
13		Examination Prep	Assignment part 2 submission	11 th Jan 2016

9. STUDENT EVALUATION

This is the first time this module has run so there are no student evaluations available.

10. LEARNING RESOURCES

10.1 Core Materials

<https://www.axelos.com/best-practice-solutions/itil>

<http://pubs.opengroup.org/architecture/togaf9-doc/arch/>

<http://www.bpmn.org/>

Desfray, P. Raymond, G. (2014) *Modelling Enterprise Architecture with Togaf: a practical guide using UML and BPMN*, Morgan Kaufmann (Available via the VLE)

10.2 Optional Materials

Bernard, S. (2012) *An Introduction to Enterprise Architecture* (Third Edition) Authorhouse.

The Open Group (2011). *TOGAF® Version 9.1*. Van Haren Publishing.

The Open Group (2011). *TOGAF® Version 9.1: A Pocket Guide*. Van Haren Publishing.

Itil (2012) *Key Element Guide Suite - Aligned to the Itil 2011 Editions* (2012). Cabinet Office

Van Haren Publishing (Author) (2007) *ITIL V3: A Pocket Guide* (1st edition) Van Haren Publishing;

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