



Unit Guide

Business Process Modelling

CSA-M-BPM

Faculty of Business, Computing &
Information Management

become what you want to be

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1.0 UNIT DETAILS

Unit Title:	Business Process Modelling
Unit Level:	M
Unit Reference Number:	CSA-M-BPM
Credit Value:	15 CAT Points
Student Study Hours:	150
Contact Hours:	45
Private Study Hours:	105
Pre-requisite Learning (If applicable):	None
Co-requisite Units (If applicable):	None
Course(s):	MSc Information Systems Management
Semester	Semester One
Unit Coordinator:	Jeff Burke
UC Contact Details (Tel, Email, Room)	x.7770, burkejw@lsbu.ac.uk , room L304
Teaching Team & Contact Details (If applicable):	As above
Subject Area:	Business & Information Systems
Summary of Assessment Method:	The unit will be assessed through one group-based portfolio coursework incorporating individual components

2.0 SHORT DESCRIPTION

This unit is concerned, as the title clearly indicates, with modelling & analysing business processes. It focuses directly on the modelling of business requirements, specifically using object oriented approaches.

As such, the unit leads students to an understanding of analytical theory and techniques (e.g. Unified Modelling Language) **through their practical application**, for instance **in case studies**.

Through theory and experience, the unit aims to equip students with appropriate skills.

3.0 AIMS OF THE UNIT

- To develop students' awareness of the theoretical aspects of process modelling and business process improvements
- To develop a working knowledge of the skills, methods and managing the development of business systems through models, with particular emphasis on team roles & team management

4.0 LEARNING OUTCOMES

On successful completion of this unit, students will be able to:

4.1 KNOWLEDGE AND UNDERSTANDING

- Achieve a critical understanding of the approaches to process modelling & analysis;
- Investigate business requirements & critically review business scenarios;
- Model & recommend appropriate solutions to meet those requirements;

A3: Information Systems modelling in business.

A4: Systems Implementation and development.

A7: Enabling IT tools and technologies.

4.2 INTELLECTUAL SKILLS

- Develop abilities in critical analysis & thinking
- Develop research skills
- Fact-finding skills
- Ability in critical analysis and thinking

B1: Formulate and express problems in the business & systems domain.

B2 Analyse and evaluate theoretical frameworks & academic literature within business & systems.

B4 Develop an independent and strategic overview within the business & systems domain.

4.3 PRACTICAL SKILLS

- Learning how to learn
- Communicating effectively through formal business models & written documents

C1 Plan and implement a business system.

C3 Write reports.

C5 Analyse, design, implement and evaluate business systems.

C6 Use a variety of methods, tools, techniques & software to solve systems problems.

4.4 TRANSFERABLE SKILLS

- Communicate & summarise results of analyses, conclusions & recommendations effectively – at the correct 'level' - to the target audience

D1 Communicate.

D3 Work independently.

D4 Evaluate one's work objectively.

D5 Develop and demonstrate the capacity to learn in unfamiliar situations.

The table below illustrates how different learning outcomes are achieved through knowledge and understanding, skills and other attributes:

Skills\Learning Outcomes	1	2	3	4	5	6
Knowledge and Understanding	A3				A7	A4
Intellectual Skills		B2	B1	B4		
Practical Skills	C6		C5	C3		C1
Transferable Skills	D5		D3	D1	D4	

5.0 INTRODUCTION TO STUDYING THE UNIT

5.1 OVERVIEW OF THE MAIN CONTENT

The content is aimed at

- understanding appropriate analytical techniques
- applying that understanding to provide business solutions

Principles of Business Process Management & Analysis

'Traditional' & Object Oriented Approaches

Applying methods & techniques, through case studies

5.2 OVERVIEW OF TYPES OF CLASSES

A combination of the following teaching and learning approaches will be used to meet the learning objectives :

- formal lectures
- tutor-directed seminars
- case studies, user interviews
- group discussions & presentations

Lecture: 2 hour per week

Tutorial : 2 hours per week

5.3 IMPORTANCE OF STUDENT SELF-MANAGED LEARNING TIME

The inclusion of the private study component is intended to encourage & support research activities and self-managed time.

6.0 THE PROGRAMME OF TEACHING, LEARNING AND ASSESSMENT

This lecture sequence is **indicative only**, and may be amended as required.

- Part I: Business Process Management Concepts
Introduction, definitions & context
- Part II: Business Process Modelling Approaches
- Part III: Business Process Analysis
- Part IV: Business Process Simulation
- Part V: Business Process Measurement
- Part VI: Business Process Improvement
- Part VII: A Framework for Business Process Management

Week 1

Part I: Business Process Management Concepts

- Introduction, definitions & context
- Business analytical roles within organisations
- Issue of Assignment.

Week 2

Part I: Business Process Management Concepts (cont.)

- Defining terms, some basic models & concepts : business processes, roles, analysis, systems analysis, systems design

Week 3

Part II: Business Process Modelling Approaches

Part VII: A Framework for Business Process Management

- The 'traditional' modelling approaches : DocFD, process models, event diagramming
- Methodology, framework introduction (e.g. DSDM)

Week 4

Part II: Business Process Modelling Approaches

- The Unified Software Development Process, & Introduction to UML

Week 5

Part III: Business Process Analysis

- UML
- Software tool evaluation

Week 6

Part III: Business Process Analysis

- UML

Week 7

Part IV: Business Process Simulation

- 'conference room pilot'

Week 8

Part V: Business Process Measurement

- Diagramming through Cases

Week 9

Part VI: Business Process Improvement

- project management issues

Week 10

Part VI: Business Process Improvement

Week 11

- Complete team case assignment

Week 12

- Hand in
- Unit review

7.0 ASSESMENT OF THE UNIT

The unit is assessed through 100% coursework :

Group assessment in the form of a case study, site visit reports (where appropriate), structured analysis /models + report, presentation/questions-&-answers; weekly reports to management on project progress.

Individual reflective element

8.0 LEARNING RESOURCES

8.1 CORE MATERIALS

Core Reading

Brown, David William *Object-Oriented analysis, an Introduction*

Wiley

ISBN 0-471-37137-8

Roff *UML : a Beginner's Guide*

Osborne/McGraw-Hill

ISBN 0 072 224606 0

Kotonya and Sommerville *Requirements Engineering : Processes & Techniques*

Wiley

Stapleton, J & McDonald, D *DSDM – the Method in Practice*

Addison Wesley

ISBN 0-201-178893

Harrington et al *Business Process Improvement*

McGraw Hill

8.2 OPTIONAL MATERIALS

- Cantor, M *Object Oriented Project Management*
Wiley ISBN 0 471 253030 0
- Booch et al *Unified Modelling Language User Guide*
Addison Wesley ISBN 0-201-57168-4
- Jacobson *Unified Software Development Process*
Addison Wesley ISBN 0 201 57169 2
- Kratochvilet et al *UML Xtra-Light : How to specify your requirements*
Cambridge University Press ISBN 0 521 892472 2
- Pidd, M *Tools for Thinking : Modelling in Management Science*
Wiley (2003 2nd ed.) ISBN 0-470-847956-2