

Module 14: Business Information Systems

Stage	2						
Semester	2						
Module Title	Business Information Systems						
Module Number	14						
Module Status	Mandatory						
Module NFQ level	7						
Pre-Requisite Module Titles	IT Skills						
Co-Requisite Module Titles	N/A						
Capstone Module?	No						
List of Module Teaching Personnel							
Contact Hours				Non-contact Hours			Total Effort (hours)
46				54			100
Lecture	Practical	Tutorial	Seminar	Assignment	Placement	Independent Work	
36		10		19	0	35	100
Allocation of Marks (Within the Module)							
	Continuous Assessment	Project	Practical	Final Examination	Total		
Percentage Contribution	30			70	100		

Intended Module Learning Outcomes

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

1. Apply appropriate features of MS Excel, MS Access and MS Project in order to solve business problems at operational or strategic level
2. Display a critical awareness of best practice in relation to business information systems development projects
3. Differentiate between business information systems used at different levels of the business organisation
4. Assess the strategic significance of business information systems and appreciate best practice in business information systems service management
5. Classify the various options available to a business when acquiring a new business information system

Module Objectives

This module is designed to progress learners IT skills to a level where they are confident in their ability to use advanced tools to aid decision making as needed by managers. It also seeks to engender an appreciation of the importance of business information systems in the day to day workplace

Module Curriculum

BIS Introduction

- What are BIS
- Role of BIS in the Organisation
- Types and Hierarchy of BIS

BIS Applications

- MS Excel as a BIS – Financial formulae, goal seeking, scenarios, what if analysis, charting, pivot tables and solver
- MS Access as a BIS – Tables, Forms, reports and queries, links to excel
- MS Project as a BIS – Gantt charts, critical paths, managing a BIS project

BIS Strategy

- Data
- Data Analytics
- Big Data

BIS Management

- Planning: Gantt Charts & Critical Tasks and Critical Path
- Work breakdown structures and Network diagrams
- Management: Key PMBOK knowledge management areas
- Methodologies: PRINCE 2 and Role of PMI

BIS Development/Acquisition

- Packaged Software versus Bespoke software
- End User Computing
- Open and closed source software options
- Systems Development Lifecycle (SDLC) - Waterfall, Agile/Scrum methodology
- Role of Cloud computing in BIS

BIS Service Management

- Procurement
- Outsourcing
- Business Continuity Plans & Risk Analysis

BIS Security and Ethics

- Security dimensions
- Security threats – most recent and damaging
- Security Solutions
- Ethical issues and their BIS significance

Reading lists and other learning materials

PMI A Guide to Project management (2013)

Stair, R., Reynolds, G. (2013) *Fundamentals of Information Systems*. Course Technology Inc.
<http://proproofs.com>

Module Learning Environment

The environment in which the class takes place includes group discussions on real life case studies as well as individual practical IT skills exercises take place in the labs. Moodle is used extensively to provide class notes, exercises, activities and real life case studies. Learners are encouraged to participate in other online exercises and quizzes which the learner can continue on outside the course class time. Learners are also encouraged to view and contribute to blogs, wikis and forums and they are also guided towards related websites so that they become aware of modern trends.

Module Teaching and Learning Strategy

This module is delivered primarily through lectures and supplemented mainly by computer based demonstrations/hands on practice in labs to enable learners to acquire the necessary knowledge and understanding of course material. Directed exercises and assignments are allocated on a regular basis for completion in class and also outside of class. Learners are fully supported via lecturer feedback in completing all tasks. Group work facilitates peer learning and learners are expected to present their ideas to their fellow learners as a means of gaining valuable formative feedback.

Module Assessment Strategy

The allocation of marks within the course work component is as follows:

30% of the marks allocated to a group assignment which demonstrates an understanding of BIS as learned on the course. This is based on the syllabus which reflects the learning outcomes. A sample assignment is included in the appendices.

The remaining 70% is allocated to an end of year closed book examination.