

## Module 14: Business Information Systems

<b>Stage</b>	2						
<b>Semester</b>	2						
<b>Module Title</b>	Business Information Systems						
<b>Module Number</b>	14						
<b>Module Status</b>	Mandatory						
<b>Module ECTS Credits</b>	5						
<b>Module NFQ level</b>	7						
<b>Pre-Requisite Module Titles</b>	IT Skills						
<b>Co-Requisite Module Titles</b>	N/A						
<b>Capstone Module?</b>	No						
<b>List of Module Teaching Personnel</b>	Michael Franklin						
<b>Contact Hours</b>				<b>Non-contact Hours</b>			<b>Total Effort (hours)</b>
46				54			100
<b>Lecture</b>	<b>Practical</b>	<b>Tutorial</b>	<b>Seminar</b>	<b>Assignment</b>	<b>Placement</b>	<b>Independent Work</b>	
36		10		19	0	35	100
<b>Allocation of Marks (Within the Module)</b>							
	<b>Continuous Assessment</b>	<b>Project</b>	<b>Practical</b>	<b>Final Examination</b>	<b>Total</b>		
<b>Percentage Contribution</b>	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.



