

MODULE: BUSINESS INFORMATION SYSTEMS

CODE: BAAF-2-1-09

Stage: II

Number of Credits: 4 semester credits / 6 quarter units

Theme: Information Technology

Assessment Weighting: 20% Coursework and 80% Final Examination

INTRODUCTION

This module is designed to demonstrate how to deliver business solutions through Information Technology. Emphasis is placed on the importance of the tasks involved in directing software development teams or through using end user applications themselves to meet the needs of the business environment. The module covers a variety of stages in the development process and examines the use of common tools and models used in system development and design.

SYLLABUS

SYSTEMS MANAGEMENT AND DEVELOPMENT

Define characteristics of good information
Align IS and IT Strategies
Stages of the Systems Development Life Cycle
Differentiate between Waterfall and Spiral Methods
Project Monitoring and Quality Control
Feasibility Studies, Contents and Issues
Pre Development Considerations

PROJECT INITIATION PLANNING AND MONITORING

Terms of Reference
Evaluating Current Systems
Defining User Requirements against Existing Systems
Broadly identify issues contained within System and User Specifications
Documenting Existing Procedures and user requirements

System Development Design and Selection
Cost Issues including cross charging
Investigate user requirements
Waterfall and Spiral Approaches
Prototyping as a Development Tool
External Design and Selection of Software Solutions
Software Packages and Bespoke Systems
Methods and Metrics for Software Selection
Technical Support Issues
CASE Tools
Rapid Application Development Techniques
Joint Application Developments
Evaluation of Information systems for quality, legal and other issues
Hardware Issues

IMPLEMENTATION

Selection of Software Implementation Method and Delivery

User Training
Software Support and Project Management
Performance Measurement and Quality Assurance
Legal Issues
Acceptance Testing
Change Management Review

SECURITY ISSUES

Organisational Controls
Procedural Controls
Access Control
Program Monitored Security

POST IMPLEMENTATION AND SYSTEMS EVALUATION

Housekeeping Routines
Define Performance and Volume Requirements
Quality Assurance and Value for Money
Metrics of Success
Categories of Maintenance