BSc (Hons) Accounting (Minor: Information Systems) - LME301

1.   Objectives

The proposed Programme of Studies aims at providing students with the knowledge, understanding and skills relating to accounting practices and theory but with an added emphasis on information systems. This proposal is geared towards supplying professionals to the business and advisory services sector. In particular, Accounting with Information Systems graduates will:

(i)   propose IT-related solutions to deal with the provision and management of information within an enterprise for decision-making and control purposes; and

(ii)   be better equipped for external and internal audit assignments, given that most accounting and finance functions in most enterprises/organizations are IT-based.

2.   General Entry Requirements

In accordance with General Entry Requirements for admission to the University for Undergraduate Degrees.

3.   Programme Requirement

A Pass in Mathematics at Advanced Level.

4.   Minimum Requirements for Awards

(i)   Degree Award

Core & Elective Structure	Credits
CORE MODULES	
Finance & Accounting	54
Computer Science & Engineering	36
Mathematics	3
Law	12
Management	3
GEM	6
ELECTIVES	3
TOTAL	**117**

For the degree award all core modules prescribed by the department must be completed.

(ii)   Diploma Award

The diploma is provided as a possible exit point in the programme. A student may opt for a Diploma in Accounting with Information Systems provided s/he satisfies the minimum requirements, as specified below.

Structure	Credits
Finance & Accounting	30
Computer Science & Engineering	18
Law	6
Mathematics	3
Management	3
Total	**60**

5.   Programme Duration

	Normal	Maximum
Diploma:	2 years	3 years
Degree:	3 years	5 years

6. **Credits per Year:** Maximum 48 credits, Minimum 18 credits subject to Regulation 5.

7. **Minimum Credits Required for Degree Award:** 117

8. **Assessment**

Each module will be assessed over 100 marks (i.e. expressed as %) with details as follows (unless otherwise specified):

Each module will carry 100 marks and will be assessed as follows (unless otherwise specified):

Assessment will be based on a written examination of 2-hour (for a semester module) or 3-hour (for a yearly module) duration and continuous assessment carrying a range of 20% to 30% of total marks except for the following module:

Module	Continuous Assessment	Written Examination
DFA 2202(3) - Research Methods for Finance and Accounting	50% (15% for class/lab test and 35% for individual assignment)	50%

For a student to pass a module, an overall total of 40% for combined continuous assessment and written examination components would be required without minimum thresholds within the individual continuous assessment and written examination.

Most modules in the structure are **yearly modules** which are taught over a period of two semesters and examined at the end of the second semester only. There are continuous assessments over the period of two semesters and the written examination will be of a duration of 3 hours for a yearly module of 6 credits.

Some modules in the structure are run over 15 weeks and carry 3 credits. The assessment of such modules will consist of continuous assessment and an examination of a duration of 2 hrs at the end of the semester in which the module is run.

Practical Training (ACF 3000) of at least 4 months' duration must be satisfactorily completed for the award of the degree. Such requirement may be waived for part-time students currently in employment.

Submission Deadline for dissertation:

Final copy: Mid March in the final year of the programme.

9. **List of Modules - BSc (Hons) Accounting (Minor: Information Systems)**

<u>**CORE MODULES**</u>

Code	Module Name	Hrs/Wk L+P	Credits
ACF 1002(1)	Principles of Finance	3+0	3
DFA 1000Y(1)	Principles of Financial Accounting	3+0	6
DFA 1001Y(1)	Cost and Management Accounting	3+0	6
DFA 2000Y(3)	Financial Reporting	3+0	6
DFA 2003Y(3)	Auditing Principles & Practices	3+0	6
DFA 2104Y(3)	Taxation	3+0	6
DFA 2202(3)	Research Methods for Finance and Accounting	3+0	3
DFA 3000Y(5)	Advanced Financial Reporting	3+0	6
DFA 3021Y(5)	Financial Management and Control	3+0	6
LAWS 1007Y(1)	Foundations of Mauritian Law	3+0	6
LAWS 2005Y(3)	Law of Associations	3+0	6
CSE 1002Y(3)	Programming Methodology	2+2	6
CSE 1004Y(1)	Structured Systems Development	2+2	6
CSE 1006Y(1)	Introduction to IS	2+2	6
CSE 2002Y(3)	Database Systems	2.5+1	6
CSE 2009Y(3)	Web Technologies with Multimedia	2+2	6
CSE 3003Y(5)	Information Systems Advanced Concepts	3+0	6
DFA 3099Y(5)	Dissertation	-	6
MGT 1111(1)	Organisation and Management	D.E	3
DFA 1201(1)	Financial Mathematics	3+0	3
ACF 3000	Practical Training	-	0

<u>**ELECTIVE MODULES**</u>

Code	Module Name	Hrs/Wk L+P	Credits
ACF 3003(5)	Advanced Auditing	3+0	3
DFA 3004(5)	Advanced Taxation	3+0	3
ACF 3210(5)	Company and Business valuation	3+0	3

Note: All 3-credit modules are run over 15 weeks and exams are scheduled at the **end** of the semester in which the module is run.

10. **Programme Plan - BSc (Hons) Accounting (Minor: Information Systems)**

Modules carrying asterisk(s):

*   These are 3-credit modules which will be run during and examined at the end of the <u>first</u> semester.
**   These are 3-credit modules which will be run during and examined at the end of the <u>second</u> semester.

YEAR 1

Code	Module Name	Hrs/Wk L+P	Credits
CORE			
DFA 1000Y(1)	Principles of Financial Accounting	3+0	6
DFA 1001Y(1)	Cost and Management Accounting	3+0	6
CSE 1002Y(3)	Programming Methodology	2+2	6
CSE 1004Y(1)	Structured Systems Development	2+2	6
CSE 1006Y(1)	Introduction to IS	2+2	6
LAWS 1007Y(1)	Foundations of Mauritian Law	3+0	6
MGT 1111(1)	Organisation & Management*	D.E.	3
DFA 1201(1)	Financial Maths*	3+0	3

YEAR 2

Code	Module Name	Hrs/Wk L+P	Credits
CORE			
ACF 1002(1)	Principles of Finance*	3+0	3
DFA 2000Y(3)	Financial Reporting	3+0	6
DFA 2003Y(3)	Auditing Principles & Practices	3+0	6
DFA 2104Y(3)	Taxation	3+0	6
DFA 2202(3)	Research Methods for Finance and Accounting**	3+0	3
CSE 2002Y(3)	Database Systems	2.5+1	6
CSE 2009Y(3)	Web Technologies with Multimedia	2+2	6

YEAR 3

Code	Module Name	Hrs/Wk L+P	Credits
CORE			
DFA 3000Y(5)	Advanced Financial Reporting	3+0	6
DFA 3021Y(5)	Financial Management and Control	3+0	6
LAWS 2005Y(3)	Law of Associations	3+0	6
CSE 3003Y(5)	Information Systems Advanced Concepts	3+0	6
DFA 3099Y(5)	Dissertation	-	6
ELECTIVES	**CHOOSE ONE FROM**		
ACF 3003(5)	Advanced Auditing**	3+0	3
DFA 3004(5)	Advanced Taxation**	3+0	3
ACF 3210(5)	Company and Business Valuation**	3+0	3

Note 1: It is compulsory for students to complete a dissertation of 10,000 to 12,000 words. This dissertation should start in Year 3, carrying 6 credits.

Note 2: Students will have to complete a minimum of one (1) General Education Module (GEM) over the three years of Programme of Studies. List of GEMs will be posted on Faculty Notice Boards at the start of every semester.

	CORE		ELECTIVES		GEM
	Yearly	**Semester**	**Yearly**	**Semester**	
Year 1	6	2	-	-	
Year 2	5	2	-	-	
Year 3	5	-	-	1	
TOTAL	**16**	**4**	**-**	**1**	**1**

Total Number of Core Yearly Modules: 16 (6 credits per module)
Total Number of Core Semester Modules   4(3 credits per module)
Total Number of GEM: 1(6 credits per module)
Total Number of Elective Semester Modules: 1 (3 credits per module)

As follows:

Note: One GEM of six(6) Credits to be completed in any of the 3 academic years.

11. Outline Syllabus

ACF 1002(1) - PRINCIPLES OF FINANCE
The Financial System; Capital Markets; An Analysis of the Financial System in the Economy; Theory and Current Statistics; Time Value of Money; Capital Budgeting: an introduction; Valuation of Financial assets; Bond Analysis: an introduction; Risk, Return and Diversification; Efficient Market Hypothesis; Multinational Finance: an introduction.

ACF 3003(5) - ADVANCED AUDITING
Professional & Ethical Considerations; Audit Process, Assignment & Reporting; Current Issues in and Development in Auditing; Small Business Audit; Audit of Group Companies; Specialised Audits: Bank, Insurance, Investment Trusts and Pension Schemes; Investigations; Auditing in the Public Sector.

ACF 3210(5) - COMPANY AND BUSINESS VALUATION
Purpose of valuation; Valuation from the vendor's perspective; Valuation for the buyer's perspective; Legal requirement; Laws related to business and company valuation; Tax implication; Tax implication on sale/acquisition of company; Methods of valuation: Asset basis; Earnings basis; Dividend basis; DCF basis.

CSE 1002Y(3) - PROGRAMMING METHODOLOGY (L/P 2/2 - 6)
Pseudocode; Structured Programming Techniques; Program Structure; Simple Data Type; Control Structures; Modularity; Structured Data Types; Introduction to Object Oriented Programming; Programming Style and Testing, Abstract Data Types, Arrays, Linked Lists, Stacks, Queues, Trees, Graphs, Operations on Trees and Graphs.

CSE 1004Y(1) - STRUCTURED SYSTEMS DEVELOPMENT
Introduction to SSAD; Software life cycles, Components in a system, Preliminary investigation, Requirements Gathering, Requirements Modeling, Data flow analysis, DFD, Data Dictionary, Systems Design, ERD, State Transition Diagram, systems implementation, software design, flowcharts, review methods, managing the development process, estimation and management of development time, Testing, Maintenance, Fundamentals of computer applications development, Application Architectures, Databases, Implementation of databases, User interface development, Query By Example, Queries using SQL, Database Access, Forms and Controls, Reports.

CSE 1006Y(1) - INTRODUCTION TO IS
Computer history - hardware - software - data and information - files and databases - Operating software - applications packages - communications technologies - networks - the Internet - programming concepts - information systems life cycle - development methodologies - roles in systems development - management of change - information storage and display information handling, Information systems in organizations, information technology at a national policy level - social and organisational aspects of systems development.

CSE 2002Y(3) - DATABASE SYSTEMS

DBMS functions/Components, Database Abstractions, Relational Model ERD, Relational algebra, Normalization, Query Language - SQL, DB design issues, Optimization, Security Issues, Transactions, Distributed Computing, Synchronization, Overview Of Distributed Databases, Distribution Transparency, Distributed Database Design - Commit Protocols and Concurrency Control, Query Processing.

CSE 2009Y(3) - WEB TECHNOLOGIES WITH MULTIMEDIA

Overview of Internet, Internet Protocols and Network Components; HTML; XML; Scripting languages; Client-side scripting; Server-side scripting, Hypermedia; Data processing on a web server (ASP, Asp.NET, PHP, Cold Fusion); Concepts of Web-based applications; Integrating applets; Administration of web servers; Principles of E-Commerce; Administration of web servers; Web site related issues; Web site design issues, Multimedia fundamentals.

CSE 3003Y(5) - INFORMATION SYSTEMS: ADVANCED CONCEPT

Overview of MIS; Planning and Control, Influences on Design, Strategic Planning for IT, Systems Theory, TPS, EIS, DSS, Abstracts and Models, Systems Investigation, Systems Development Methodologies, BPR, Analysis and Design Techniques, User Involvement, Software Development, Systems Implementation, Network Security, Systems Maintenance. Nature & Importance of IS Management; Roles of IS Managers; Measurement of the IS Functions; Information Infrastructures; Strategic Alignment of IT with Business; Planning for Information Systems; Enterprise Resource Planning, Contract & Procurement Strategies, Financial Aspects of IS, Outsourcing Techniques, Security & Control; Audit, Evaluation, & Assessment.

DFA 1000Y(1) - PRINCIPLES OF FINANCIAL ACCOUNTING

The Role of Accounting Information; Recording and Summarising Transactions; Accounting Concepts & Preparing Final Accounts; Adjustments to Final Accounts; Capital v/s Revenue Expenditure; Bank Reconciliation Statement; Depreciation; Correction of Errors; Control Accounts; Value Added Tax; Stock Valuation Methods; Partnerships; Goodwill and Changes in Partnerships; Incomplete Records; Accounting for Not-for-Profit Organisations; Limited Companies; Business Purchase; International Accounting Standards & Desirable Attributes of Accounting Information; Cash Flow Statement; Interpretation of Financial Statements; Branch Accounting.
The Use of Accounting Packages: Nominal Ledger, Purchases and Sales Ledger, Payroll and Stock Control. Setting up of the system, with integration of the various modules. Carrying out end of period routines. Preparation of financial statement.

DFA 1001Y(1) - COST AND MANAGEMENT ACCOUNTING

Elements of cost; Cost Accounting System; Cost Book Keeping; Job & Batch Costing; Contract Costing; Process Costing; Joint Products & By-Products Costing; Operation & Service Costing; Absorption and activity-based costing; Marginal Costing & Contribution Analysis; Break Even & Cost Volume Profit Analysis.
Introduction to Management Accounting; Accounting for Decision Making - Short & Long Term; Decision Making with Uncertainty; DCF Techniques; Pricing Policies; Relevant Costs; Budgeting & Budgetary Control; Evaluation of Fixed/Flexible, Zero Based, Incremental, Periodic, Continuous and Activity Based budgetary systems; Budget Review; Costing Techniques; Absorption, Marginal and Opportunity Cost Approaches for Specific Orders/Operations; Life Cycle Costing; Target Costing; Standard Costing and Variance Analysis, Significance, Interpretation & Relevance of Variances; Planning & Operational Variances.

DFA 2000Y(3) - FINANCIAL REPORTING

IASC Framework; Revenue Recognition; Reporting Financial Performance; Presentation of Financial Statements: Fixed Assets, Investments, Inventories, Construction Contracts; Deferred Taxation; Operating and Finance Leases; Earnings per Share. Rationale for Group Financial Statements; Fair Values and Goodwill; Accounting for Subsidiary Undertakings, Associates and Joint Ventures; Consolidated Cash Flow Statement; Foreign Currency Translation and Transactions; Accounting for Foreign Undertakings; Merger Accounting; Segmental Reporting.

DFA 2003Y(3) - AUDITING PRINCIPLES AND PRACTICES
Nature of Audit; Regulatory Framework of Auditing; Appointment, Resignation and Dismissal of Auditors; Auditors' Rights, Duties and Liabilities; Auditors' Independence; Audit Planning; Audit Programmes and Working Papers; Audit Evidence; Audit Risks & Internal Control; Audit Process; Audit Assignments; Reporting; Auditing in a Computerised Environment; Quality Control; Sampling; Internal Audit and Internal Review; International Standards on Auditing; Regulation.

DFA 2104Y (3) - TAXATION
Mauritian Tax
Principles of Taxation; Power of Commissioners; Administration of Mauritian Tax; Taxation of Individuals from various sources; Capital allowances; Partnership and company Taxation; Taxation of Trusts and deceased persons; Value Added Tax; Anti Avoidance Taxation Relief.

Introduction to UK Taxation
Principles of Schedular Systems; Powers of commissioners; Administration of Tax; Income Tax Individuals from various sources; Business Taxes; Capital Allowances; Loss Reliefs for individuals; Partnership Taxation; Introduction of capital Gains Tax.

DFA 2202(3) - RESEARCH METHODS FOR FINANCE AND ACCOUNTING
Analysis of the science of research; Key Elements of Research; Research Designs; Data Issues; Hypothesis Development; Data Collection Methods; Causal Methods; The Use of Software in Research; The use of Parametric and Non-parametric Statistical tests; General Research Methodology; Plagiarism; Referencing; Case Study analysis of key Accounting or Finance Literature.

DFA 3000Y(5) - ADVANCED FINANCIAL REPORTING
Accounting Theory; Decision Usefulness Approach; Definition of Income; Valuation Methods; Inflation Accounting; Positive Accounting Theory; Legal Requirements and The True & Fair View; Standard Setting Process; Earnings Management; Financial Statement Analysis; Corporate Failure Prediction. Reporting the Substance of Transactions; Related Party Disclosures; Accounting for Intangible Assets; Accounting for Financial Instruments and Hedges; Corporate Governance; Accounting for Social Responsibility; Accounting Ethics; Current Financial Reporting Issues.

DFA 3004(5) - ADVANCED TAXATION
UK Taxation
Corporate Tax; Loss Reliefs for companies; Capital Gains Tax including shares and available Reliefs; Value Added Tax; Inheritance Tax and Exemptions; Personal Tax Deferrals and Mitigation; International Aspects of Taxation; Residence and its Implications; Comparative Tax System; Tax Planning.

DFA 3021Y(5) - FINANCIAL MANAGEMENT AND CONTROL
Financial Management Objectives; Nature, Purpose and Scope of Financial Management in profit and non-profit making organisations; Financial Management Environment; Sources of finance (equity, debt, near-debt and financing of SMEs) and relative costs; Requirements; Capital Structure Planning and Policy including application of Modigliani and Miller propositions; Cost-Volume Profit Analysis & Operating Leverage; Analysis of Capital Budgeting Decisions - Identifying Free Cash Flows and Appraisal of capital investment opportunities (DCF and Non-DCF Techniques) inclusive of effects of taxation, inflation, risk and uncertainty; leasing v/s buying with borrowed funds decisions; Financial & Profit Planning; Nature & Scope of Working Capital Management; Management of Stock, Debtors, Short Term Funds, Cash, Overdrafts, and Creditors; Techniques of Working Capital Management.
Management Control in Decentralised Organisations - Divisional Performance, Transfer Pricing; Quantitative Aids to Budgeting; Performance Measurement Models - Balanced Scorecard, Financial v/s Non Financial Business measures, Benchmarking; Non Profit Organisations; Public Sector; Impact on Reward Schemes; Planning & Control - Strategic Management Accounting; Management Accounting Framework; Management Accounting Systems - Design, Objectives, Recording and Format of Reports; Management Accounting Theory – Behavioural Implications of Management Accounting Practices.

DFA 3099Y(5) - DISSERTATION

The assessment of final year dissertation will be based on the application of accounting and/or IT skills imparted during the course to a real-life or research-oriented problem.

LAWS 1007Y(1) - FOUNDATIONS OF MAURITIAN LAW

The Historical Background of Mauritian Law – Impact of English Law and French Law and other Legal Systems – Features of a mixed law system. Various branches of law – Public law and Private Law and sub division thereof; Civil Process and Criminal Process; Organisation of Courts; The legal profession and Judiciary; Meaning of Law; Nature of law; Law and Social Sciences; Law and Morality and other Normative System; Sources of Law; Constitution, Legislation, Subsidiary legislation, Customs, Books of Authority, Common Law and Equity; Case-law – Interpretation of cases; Statutory interpretation; Legal Thoughts and Legal Reasoning; Les droits subjectifs – les droits patrimoniaux et les droits extrapatrimoniaux, les sources de droits; Les personnes physiques et les personnes morales; Introduction au droit des contrats et à la responsabilité délictuelle.

LAWS 2005Y(3) - LAW OF ASSOCIATIONS

This module will cover 45 hours Company Law, 25 hours of Corporate Insolvency and 20 hours of Societés.

The Company as a medium to conduct business; Different types of companies; Registration of Companies; Constitution of Companies. Consequences of Incorporation: Corporate Personality and lifting the veil. Share Capital and Methods of Public Offering; The Management and Control of Companies; Directors' Duties, Majority Rule and Minority Shareholders' Protection; Shareholder Remedies, Company Meetings, Insider Dealing.

Sources and Objectives of Insolvency Law; Causes of Corporate Failure; General Principles of Winding Up. The Appointment, Control, Powers, Duties and Release of the Liquidator; Powers of the Court, Voluntary Winding Up; Members' and Creditors' Winding Up; Declaration of Solvency; Meetings of Members and Creditors; Dissolution; Defunct Companies; Outstanding Assets; The Official Receiver; Receivers and Managers. Appointment, Powers, Duties and Liability of Receiver.

Classification of "Sociétés" - Definition; General Principles: The Contract of "Société". The "Société" as a legal person; Formation, Conversion, Merger, Scission and Dissolution of "Société". Gerants. Partners. Specific "Société": "Société" en nom collectif.

DFA 1201(1) - FINANCIAL MATHS

Differentiation and Taylor Series; Transformations; Partial Differential Equations; Distributions; Binomial modelling; Elementary Stochaustic Calculus; Elementary Computational Methods (Random numbers and monte carlo); Applications of Term Structure of Interest Rate; Applications of Market Prediction.

MGT 1111(1) - ORGANISATION AND MANAGEMENT

Management Concepts and Functions; Development and Management Theories; The Internal and External Environments of the Organisation; Social Responsibility and Ethics in Management; Managerial Decision Making; The Planning Process; The nature of Organisation Structure; Organisational Control; Contemporary Issues in Management; Management in Future.