

BSc (Hons) Business Economics with Information Systems (F/T) – SHE305

1. Objectives

The programme is designed to provide knowledge and competence in Business Economics, and proficiency in information technology for a number of professions in the public and private sectors.

2. General Entry Requirements

As per General Entry Requirements for admission to the University for undergraduate degree programmes.

3. Programme Requirements

Credit in Mathematics and English at 'O' Level and either 'A' Level Mathematics or 'O' Level Additional Mathematics or HSC Subsidiary/ Advanced Subsidiary Mathematics.

4. Programme Duration

	Normal	Maximum
Degree:	3 years	5 years

5. Credits per Year

Maximum 48 credits, Minimum 18 credits subject to regulation 4.

6. Minimum Credits Required for Degree Award: 100

Breakdown as follows:

Credits from			
Core Taught Modules	Dissertation	Electives	GEMs
63	10	21	6

Modules	Credits
Core	
Economics	33
Information Systems	24
Others	6
Dissertation	10
Electives	
Economics & Others	21
GEMs	6
Total	100

7. Assessment

Each module will be assessed over 100 marks with details as follows (unless otherwise specified):

The continuous assessment will count for 20-30% of the overall percentage mark of the module(s), except for a Programme where the structure makes for other specific provision(s).

Continuous assessment may be based on laboratory work, seminars and/or assignments and should include at least two (2) assignments/tests per module. There will be a compulsory class test for all modules taught in semester 1 at the end of semester 1 of the given academic year unless stated otherwise in the Programme Structure.

An overall total of 40% for combined continuous assessment and written examination components would be required to pass the module, without minimum thresholds within the individual continuous assessment and written examination. The same criterion will apply for modules being assessed jointly. Note that all overall mark for the two modules will be considered and not the individual marks for each of the two modules.

8. Submission Deadline for Dissertation

Final copy: To be submitted on the last working day of March of the academic year.

9. List of Modules - BSc (Hons) Business Economics with Information Systems

A. CORE MODULES - Economics

Code	Module Name	Hrs/Wk	Credits
		L+P	
ECON 1001Y(1)	Fundamentals of Economics	3+0	6
ECON 1003Y(1)	Quantitative Methods for Business	3+0	6
ECON 2008Y(3)	Business Economics	3+0	6
ECON 2171(3)	Fundamentals of Econometrics	3+0	3
ECON 2011Y(3)	Project Analysis and Business Finance	3+0	6
ECON 3003Y(5)	Business Strategy & e-Commerce	3+0	6
ECON 3000(5)	Dissertation	-	10

B. CORE MODULES - Information Systems

CSE 1004Y(1)	Structured Systems Development	2+2	6
CSE 1006Y(1)	Introduction to Information Systems	2+2	6
CSE 2002Y(3)	Database Systems	3+0	6
CSE 3003Y(5)	Information Systems - Advanced Concept	3+0	6

C. OTHER CORE MODULES

LAWS 1105(1)	Introduction to Law & Legal Methods	3+0	3
ACF 2010(3)	Financial Statement Analysis	3+0	3

D. ELECTIVES

ECON 1232(1)	Economic History of Mauritius ¹	3+0	3
ECON 1233(1)	Comparative Economic Systems	3+0	3
ECON 2009Y(3)	Principles and Practices of Banking	3+0	6
ECON 2006Y(3)	Economics of Transport and Tourism	3+0	6
ECON 2233(3)	Applied Econometrics for Business	3+0	3
ECON 3182(5)	Introduction to Risk Management	3+0	3
ECON 3004Y(5)	Business Ethics and Governance	3+0	6
ECON 3279(5)	Financial Markets and Institutions	3+0	3
CSE 3006Y(5)	Operations Research and Simulation	3+0	6
MGT 1200(1)	Introduction to Marketing	D.E.	3
LAWS 1205(1)	Droit Commercial et Droit de Sociétés	3+0	3
MGT 3059Y(5)	International Business and Management	3+0	6
PSYC 3103(5)	Industrial/Organisational Psychology	3+0	3
	GEM		

Note: Offering of electives would be subject to availability of resources and critical mass. The Department reserves the right to offer additional electives).

10. Programme Plan - BSc (Hons) Business Economics with Information Systems

YEAR 1

Code CORE	Module Name	Hrs/Wk L+P	Credits
ECON 1001Y(1)	Fundamentals of Economics	3+0	6
ECON 1003Y(1)	Quantitative Methods for Business	3+0	6
CSE 1004Y(1)	Structured Systems Development	2+2	6
CSE 1006Y(1)	Introduction to Information Systems	2+2	6
LAWS 1105(1)	Introduction to Law & Legal Methods ¹	3+0	3
ELECTIVES		CHOOSE AT LEAST 3 CREDITS	
ECON 1232(1)	Economic History of Mauritius ¹	3+0	3
ECON 1233(1)	Comparative Economic Systems ¹	3+0	3

YEAR 2

Code CORE	Module Name	Hrs/Wk L+P	Credits
ECON 2008Y(3)	Business Economics	3+0	6
ECON 2171(3)	Fundamentals of Econometrics ²	3+0	3
ECON 2011Y(3)	Project Analysis and Business Finance	3+0	6
CSE 2002Y(3)	Database Systems	3+0	6
ACF 2010(3)	Financial Statement Analysis ¹	3+0	3
ELECTIVES		CHOOSE AT LEAST 6 CREDITS	
ECON 2009Y(3)	Principles and Practices of Banking	3+0	6
ECON 2006Y(3)	Economics of Transport and Tourism	3+0	6
MGT 1200(1)	Introduction to Marketing ¹	D.E.	3
LAWS 1205(1)	Droit Commercial et Droit de Sociétés ¹	3+0	3
PSYC 3103(5)	Industrial/Organisational Psychology ²	3+0	3

YEAR 3

Code CORE	Module Name	Hrs/Wk L+P	Credits
ECON 3000(5)	Dissertation	-	10
CSE 3003Y(5)	Information Systems - Advanced Concept	3+0	6
ECON 3003Y(5)	Business Strategy & e-Commerce	3+0	6
ELECTIVES		CHOOSE AT LEAST 12 CREDITS WITH A MINIMUM OF 6 CREDITS FROM ECON MODULES	
ECON 2233(3)	Applied Econometrics for Business ¹	3+0	3
ECON 3182(5)	Introduction to Risk Management ²	3+0	3
ECON 3004Y(5)	Business Ethics and Governance	3+0	6
ECON 3279(5)	Financial Markets and Institutions ¹	3+0	3
CSE 3006Y(5)	Operations Research and Simulation	3+0	6
MGT 3059Y(5)	International Business and Management	3+0	6

Note:

(1) ¹- Modules taught in semester one

(2) ²- Modules taught in semester two

(3) Examinations for D.E. Modules and GEMs would be held at the end of the semester in which they are taught. Relevant information would be provided to students at the beginning of the academic year.

11. Outline Syllabus

ACF 2010(3) - FINANCIAL STATEMENT ANALYSIS

Regulatory Framework for Company Financial Reporting. Understanding Published Annual Reports. Interpretation Techniques. Corporate Failures and Credit Evaluation. Forecasting Financial Information. Valuing Businesses. Earnings Management. Financial Reporting Issues.

CSE 1004Y(1) - STRUCTURED SYSTEMS DEVELOPMENT

Introduction to SSAD; Software Life Cycles. Components in a System, Preliminary Investigation. Requirements Gathering. Requirements Modelling. 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 INFORMATION SYSTEMS

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 organisations, 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, Optimisation, Security Issues, Transactions, Distributed Computing, Synchronization, Overview of Distributed Databases, Distribution Transparency, Distributed Database Design, Commit Protocols and Concurrency Control, Query Processing.

CSE 3003Y(5) - INFORMATION SYSTEMS: ADVANCED CONCEPT (PQ: CSE 1006Y(1))

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.

CSE 3006Y(5) - OPERATIONS RESEARCH AND SIMULATION

Linear programming; Simplex Algorithm; Transportation Problems; Network Techniques; Game Theory; Markov's Chains; Queuing Theory; Simulation.

ECON 1001Y(1) - FUNDAMENTALS OF ECONOMICS

Price Mechanism. Revenue and Elasticity. Consumer Choice. Theory of Production. Analysis of Costs. Market Structures. Factor Market Analysis. Market Failures and Externalities. National Income Determination. Consumption, Savings and Investment. Monetary Policy and Theories of Inflation. Unemployment. Fiscal Policy. IS-LM Model. International Trade, Balance of Payments and Exchange Rate Regimes.

ECON 1003Y(1) - QUANTITATIVE METHODS FOR BUSINESS

Differential and Integral Calculus with Business Applications. Optimisation, Constrained and Unconstrained. Series and Financial Mathematics. Linear Algebra. Linear Programming. Introduction to Differential Equations. Descriptive Statistics: Introduction, Data Presentation, Measures of Location, Measures of Dispersion. Probability and Probability Distributions. Statistical Inference: Introduction, Sample Distribution of Sample Statistics, Estimation, Hypothesis Testing. Index Numbers.

ECON 1233(1) - COMPARATIVE ECONOMIC SYSTEMS

Introduction to comparative economic systems: Classical and Marxist views of economic change, Development of capitalism, Economic theory of capitalism, Models of capitalism: European capitalism Asian capitalism, Socialism. Planned economies. Market economies. Transition economies.

ECON 2006Y(3) - ECONOMICS OF TRANSPORT AND TOURISM

Economics of domestic and international tourism. Eco-tourism. Small island economies. Methods of evaluating sustainability of tourism. Cost structure and pricing strategies. Hospitality management. WTO and regional strategies. Case studies. Analysis of transport markets. Pricing policies and reform. Technology and the Transport sector. Transport externalities. Sustainable transport network. Transport Policy. Regulation and deregulation. Case studies.

ECON 2008Y(3) - BUSINESS ECONOMICS

Demand analysis. Consumer Choice. Production and Costs. Decision Analysis. Uncertainty and Information: Adverse Selection, Moral Hazard, Principal-Agent Problems, Design of Optimal Incentive Plans. Externalities and Public Goods. Market Structures. Pricing Practices. Product Differentiation. Strategic Behaviour. Industry Structure and Performance. Risk Analysis and Capital Budgeting. Regulation. Managerial Economics: Taking a Global View.

ECON 2009Y(3) - PRINCIPLES AND PRACTICES OF BANKING

Types, Characteristics and Functions of Money. Demand for Money. Role of Banks and Non-banking Institutions. The Money Supply Process. Financial Intermediation. Banking Regulation. Bank Management. Interest Rates. Money and Capital Markets. Central Banking. Monetary Policy. International Financial System. Eurocurrency Markets. Currency Risk Exposure and Management. Global Financial Services. International Banking Centers. Offshore Banking. Harmonisation of Central Banks' Operations. Banking Crises and Contagion. Regulation of International Banking.

ECON 2011Y(3) - PROJECT ANALYSIS AND BUSINESS FINANCE

Financial, Economic and Environmental Dimensions of a Project. Applications of Standard Techniques. Measurement Issues. Feasibility Analysis. Cost-Effectiveness Analysis. Financing Options and Implications. International Financing. Sources of Finance for Business: Banks and Non-bank Financial Institutions. Corporate Bonds. Bond Ratings and Risk. Financial Leverage. Microcredit. Venture Capital. Leasing. Informal Finance. Stock Market. Partnerships and Mergers.

ECON 2171(3) - FUNDAMENTALS OF ECONOMETRICS

Linear Regression Model: Hypothesis Testing and Inference; Dummy Variables; Multicollinearity, Heteroscedasticity and Autocorrelation; Introduction to Time Series Models. Introduction to Simultaneous Equation Models.

ECON 2233(3) - APPLIED ECONOMETRICS FOR BUSINESS

Model Specification, Evaluation and Selection; Modelling Seasonality and Structural Change; ARIMA Modelling; Unit Root and Co-integration; Applications to Business: Demand Estimation; Investment Functions; Production Functions and Technological Change; Econometrics of the Stock Market; Business Forecasting.

ECON 3000(5) - DISSERTATION

At the end of the third year of the programme, the students will be required to submit a project dissertation. The title of the dissertation has to be approved by the Department of Economics and Statistics and a Project Supervisor identified by the Programme Coordinator. The dissertation length should be in the range of 8,000–12,000 words.

ECON 3003Y(5) - BUSINESS STRATEGY AND e-COMMERCE

The Firm and its Environment. Strategy Formulation. Managerial Incentives: Theory and Practice. Industry Analysis. Positioning. Competitive Analysis and Sustainable Advantage. Learning Curve. Coordination and Complementarity at Firm Level. Diversification and Economies of Scope. Case Studies.

Globalisation and Electronic Business. Networking. Growth. Risk. Costs and Efficiency. Impact of Financial and Banking Activities. Financial services and e-Marketing. Security of Information and Transactions. Development of e-Business in Mauritius.

ECON 3004Y(5) - BUSINESS ETHICS AND GOVERNANCE

Historical Evolution of the Mauritian Economy. Structural Change and Economic Diversification. Employment and Manpower Policy. International Trade Policy. Labor Law and Industrial Dispute Settlement Mechanisms. Industry Structure and Performance. Public-Private Partnership. Welfare State. Environment Policy. Regional Cooperation and Prospects.

Horizontal v/s Vertical Governance. Profit Maximisation v/s Other Corporate Objectives. Social Responsibility of Business, Labour-Management Participation. International Labour Standards. Business and the Environment. Challenges of Globalisation. Regulation of Business Practices.

ECON 3182(5) – INTRODUCTION TO RISK MANAGEMENT

Sources and Types of Risk: Hedging Techniques. Foreign Exchange Markets. Foreign Exchange Exposure. International Techniques of Managing Forex Risk: Introduction to Forward and Futures Markets. Swaps: Interest Rate Currency and Commodity Swaps. Commodity Futures. Introduction to use of Options in Risk Management.

ECON 3279(5) - FINANCIAL MARKETS AND INSTITUTIONS

Financial systems. Banks v/s Capital Market. Capital Markets and Resource Allocation. National and International Financial Markets, Instruments and Institutions. Structure of Financial Markets and Trading Techniques. Interest Rate Linkages. International Liquidity. Financial Stability and Capital Flows. Financial Crisis and Contagion. Regulatory Framework.

LAWS 1105(1) - INTRODUCTION TO LAW AND LEGAL METHODS

Law and other social sciences. Sources of law. Distinction between public and private law. Criminal and civil law. Role of law. Common law and civil law systems. Case law techniques. Statutory interpretation.

LAWS 1205(1) - DROIT COMMERCIAL ET DROIT DE SOCIÉTÉS

Acte de commerce; statut de commerçant; le commissionnaire; le gage commercial; les critères de la société et les sociétés commerciales de personnes (société en nom collectif et en commandité simple); le droit de la faillite.

ECON 1232(1) - ECONOMIC HISTORY OF MAURITIUS

Take-off of the Sugar Plantation and Industry. Restructuring during 1870-1900. Labour Market. Emergence of Small Planters. Trade with Europe and India. Gold Standard. Sugar Boom. Depression and the War Economy. Post-war Economic Development. Institutions and the Welfare State.

MGT 3059Y(5) - INTERNATIONAL BUSINESS AND MANAGEMENT

The International Business Environment – Introduction to International Business, The Emerging Global Economy, The Role of Technological Forces in the Globalisation Process, Differences in Political Economies, The Concept of National Competitiveness, Emerging Markets in the Global Economy.

Cross-Border Management – The International Marketing environment as influenced by Political, Legal and Cultural dimensions. Foreign Market Analysis, Selecting and Managing Entry Modes to Foreign Markets, Assessing the Impact of Exporting, Importing and Counter-Trade. International Market Research and Multinational Marketing Information Systems. International Marketing Mix decisions. Managing Diversity and Cross Cultural Differences. Current Issues in International Business and Management.

PSYC 3103(5) - INDUSTRIAL/ORGANISATIONAL PSYCHOLOGY

Introduction to Industrial/Organisational Psychology. Foundations of Individual Behavior in Organisations. Motivation. Group Dynamics. Conflict. Power and Politics. Leadership. Communication. Organisational Culture. Organisational Change and Development. HRM Issues.

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