
BSc (Hons) Risk Management and Investment (3 Years Full-Time) – MIBS 410

BSc (Hons) Risk Management and Investment (Full-Time)

1. Objectives

The BSc (Hons) Risk Management and Investment is intended for individuals who would like to pursue a career in the Banking industry or the financial sector. The demand for sophisticated risk managers and financial analysts has been felt even more during the current financial crisis situation. By providing the students with in-depth knowledge of modern investment and risk management practices, and their applications in equity markets, bond trading, derivatives hedging, investment banking, hedge funds and many other areas of global markets, this degree prepares the candidates to become competent analysts and managers in the financial sector. Furthermore, in view of increasing the practical skills of students, modules of the programme will usually consist of 30 contact hours as formal lectures and 15 hours for projects, case studies, firm visits, interviews, site tours etc.. Moreover, this programme will provide the basic skills and knowledge for students who are interested in enrolling on professionally recognised qualifications such as the Chartered Financial Analyst (CFA) programme or the ICSA (International Chartered Secretaries Association). Finally, this programme offers the possibility to exit the course and be awarded either a Certificate or Diploma in Risk Management and Investment after completing the required number of credits/modules.

2. General Entry Requirements

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

3. Programme Requirements

“A credit in any Mathematical subjects (Accounting, Economics ...) at ‘O’ Level”

4. Programme Duration

	Normal (Year(s))	Maximum (Years)
Certificate:	1	2
Diploma:	2	4
Degree:	3	5

5. Credits per Semester

Minimum 3, Maximum 24 subject to Regulation 4.

6. Minimum Credits Required for Award of

Certificate:	30
Diploma:	60
Degree:	100

Note: Certificate/Diploma/Degree will be delivered on EXIT of Programme, after having completed the above number of credits.

Credits are as follows

Semester	Core		Dissertation/Practicums	Total
1	18		-	18
2	18		-	18
3	15		-	15
4	18		-	18
5	11			11
6	14		6	20
TOTAL	94			100

7. Assessment

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 as specified and continuous assessment carrying a range of 20% to 30% of total marks.

Continuous assessment may be based on mini-projects, assignments, and/or class tests.

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.

Practical Training (MIBS29212) of at least 3 months' duration must be satisfactorily completed for the award of the degree.

Workshops shall be compulsory and will be non-examinable, 1-credit, 15-hour modules. As part of the assessment, students will be required to submit a report of 2000-2500 words. Grade 'S' will be assigned upon satisfactory attendance and performance in these workshops in order to be eligible for the award of the degree. The dissertation will carry 6 credits. The topic must reflect the Programme of Study being attempted.

8. Mode of Delivery

Modules of the programme will normally consist of 30 contact hours as formal lectures and 15 hours for projects, case studies, firm visits, interviews, site tours etc. Lecturers will be responsible to monitor the progress of students during those 15 hours to ensure that students satisfactorily meet the objectives and experiences set. Also, a report has to be submitted to lecturers for the latter to provide feedback on the work done. The report may be used for continuous assessment.

9. List of Modules

CORE MODULES

Module Code	Module Name	Hrs/Wk L+P	Credits
MIBS 20111(1)	Introduction to Finance	3+0	3
MIBS 30111(1)	Principles of Accounting	3+0	3
MIBS 25112(1)	Quantitative Techniques	3+0	3
MIBS 50111(1)	Introduction to Law	3+0	3
MIBS 40111(1)	IT Applications	3+0	3
MIBS 72311(1)	Business Environment	3+0	3
MIBS 51112(1)	Company Law & Trusts	3+0	3
MIBS 23112(1)	Banking Fundamentals	2+1	3
MIBS 22412(1)	Principles of Risk Management	2+1	3
MIBS 28100(1)	Global Business Activities	3+0	3
MIBS 34100(1)	Taxation relating to Businesses	3+0	3
MIBS 25212(1)	Mathematics of financial and Investment analysis	3+0	3
MIBS 34321(3)	Tax Fraud and Prevention	2+1	3
MIBS 74121(3)	Fundamentals of Econometrics I	2+1	3
MIBS 21122(3)	Investment Analysis I	2+1	3
MIBS 22521(3)	Advanced Risk Management 1	2+1	3
MIBS 33122(3)	Auditing Concepts and Practice	2+1	3
MIBS 37120(3)	Financial Statement Analysis	2+1	3
MIBS 22522(3)	Advanced Risk Management 2	2+1	3
MIBS 21231(3)	Investment Analysis II	2+1	3
MIBS 74122(3)	Fundamentals of Econometrics II	2+1	3
MIBS 29122	Research Methods (Note 1)	3+0	0
MIBS 35122(3)	Company and Business Valuation	2+1	3
MIBS 23632(5)	Banking Operations and Supervision	2+1	3
MIBS 37332(5)	Introduction to Forensic Accounting	2+1	3
MIBS 18131(3)	Corporate Governance	2+1	3
MIBS 24330(5)	Capital Markets and International Finance	2+1	3
MIBS 27322(5)	Money Laundering and Terrorism Financing	2+1	3
MIBS 22232(5)	Asset and Liability Management	2+1	3
MIBS 26232(5)	Applied Financial Modelling	2+1	3
MIBS 27132(5)	Compliance Issues in the Financial Services	2+1	3
MIBS19531	Workshop on Communication		1
MIBS19631	Workshop on Negotiation		1
MIBS19732	Workshop on Business Plan		1
MIBS19832	Workshop on improving your employability		1
MIBS29931(5)	Dissertation		6

10. Programme Plan - BSc (Hons) Risk Management and Investment (Full-Time)

SEMESTER 1

Module Code	Module Name	Hrs/Wk L+P	Credits
CORE			
MIBS 20111(1)	Introduction to Finance	3+0	3
MIBS 30111(1)	Principles of Accounting	3+0	3
MIBS 25112(1)	Quantitative Techniques	3+0	3
MIBS 50111(1)	Introduction to Law	3+0	3
MIBS 40111(1)	IT Applications	3+0	3
MIBS 72311(1)	Business Environment	3+0	3

SEMESTER 2

Module Code	Module Name	Hrs/Wk L+P	Credits
CORE			
MIBS 51112(1)	Company Law & Trusts	3+0	3
MIBS 23112(1)	Banking Fundamentals	2+1	3
MIBS 22412(1)	Principles of Risk Management	2+1	3
MIBS 28100(1)	Global Business Activities	3+0	3
MIBS 34100(1)	Taxation relating to Businesses	3+0	3
MIBS 25212(1)	Mathematics of financial and Investment analysis	3+0	3

SEMESTER 3

Module Code	Module Name	Hrs/Wk L+P	Credits
CORE			
MIBS 34321(3)	Tax Fraud and Prevention	2+1	3
MIBS 74121(3)	Fundamentals of Econometrics I	2+1	3
MIBS 21122(3)	Investment Analysis I	2+1	3
MIBS 22521(3)	Advanced Risk Management 1	2+1	3
MIBS 33122(3)	Auditing Concepts and Practice	2+1	3

SEMESTER 4

Module Code	Module Name	Hrs/Wk L+P	Credits
CORE			
MIBS 37120(3)	Financial Statement Analysis	2+1	3
MIBS 22522(3)	Advanced Risk Management 2	2+1	3
MIBS 21231(3)	Investment Analysis II	2+1	3
MIBS 74122(3)	Fundamentals of Econometrics II	2+1	3
MIBS 29122(3)	Research Methods (Note 1)	3+0	0
MIBS 18131(3)	Corporate Governance	2+1	3
MIBS 35122(3)	Company and Business Valuation	2+1	3

SEMESTER 5

Module Code	Module Name	Hrs/Wk L+P	Credits
CORE			
MIBS 23632(5)	Banking Operations and Supervision	2+1	3
MIBS 37332(5)	Introduction to Forensic Accounting	2+1	3
MIBS 24330(5)	Capital Markets and International Finance	2+1	3
MIBS 29931(5)	Dissertation		-
MIBS19531	Workshop on Communication	1	1
MIBS19631	Workshop on Negotiation	1	1

SEMESTER 6

Module Code	Module Name	Hrs/Wk L+P	Credits
CORE			
MIBS 27322(5)	Money Laundering and Terrorism Financing	2+1	3
MIBS 22232(5)	Asset and Liability Management	2+1	3
MIBS 26232(5)	Applied Financial Modelling	2+1	3
MIBS 27132(5)	Compliance Issues in the Financial Services	2+1	3
MIBS 29931(5)	Dissertation		6
MIBS19732	Workshop on Business Plan	1	1
MIBS19832	Workshop on improving your employability	1	1

Note 1: Research Methods will be offered in Semester 4. This module is designed to enable students to develop the appropriate skills for the preparation of their dissertations. It is non-examinable and no credit is awarded for it, but it must be satisfactorily completed (Grade S) for the award of the Degree.

Total Number of Modules: 31 (excluding dissertation, research methods and workshops)

As Follows:

Semester	Core	
1	6	
2	6	
3	5	
4	6	
5	3	
6	4	
TOTAL	30	

11. Outline Syllabus - BSc (Hons) Risk Management and Investment (Full-Time)

MIBS 20111(1) Introduction to Finance

The Financial System; Capital Markets; 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.

MIBS 30111(1) Principles of 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; Stock Valuation Methods; Partnerships; Goodwill and Changes in Partnerships; Incomplete Records, Introduction to Company Accounts, Cost Accounting and Cost Classifications; Manufacturing Accounts; Introduction to Accounting Ratios and Interpretation of Accounts.

MIBS 25112(1) Quantitative Techniques

Quantitative Methods and Techniques for Investment. Statistical Techniques & Methods for Investment. source, types and arrangement of data; presentation of quantitative and qualitative data; measures of location and spread; correlation analysis; Index numbers; Time series analysis of data: Exponential smoothing

MIBS 50111(1) Introduction to Law

Law as a normative system. Sources of law. Legislation and the legislative process. Statutory interpretation. Droits subjectifs and legal personality; Aspects of Substantive Mauritian Law; The Judicial Process, Introduction to Labour Laws

MIBS 40111(1) IT Applications

IT and Computers; Stepping in the Computer; Input and Output Devices; Secondary Storage; Programming; Systems Software; Applications Software; Systems Development; Computer Networks; The Internet; Computer Security; Software Utilities; Issues and Trends in IT.

MIBS 72311(1) Business Environment

Economics and the business environment markets; demand and supply; pricing and output decisions in imperfect markets; cost of production; government, the firm and the market; macroeconomic environment: economic systems, national income flows and measures, macroeconomic objectives, and macroeconomic policies; the global business environment; multinational corporations and business strategy; market failures.

MIBS 51112(1) Company Law & Trusts

Companies: incorporation; constitution; share capital; management; directors' duties; minority protection; insider dealing; winding up of companies; corporate reorganization; administration of trusts; duties of trustees; powers of investment and general powers; rights and liability of beneficiaries.

MIBS 23112(1) Banking Fundamentals

Financial Intermediation: Types and different activities of Banks; Payment services; Bank Modelling: Asset Allocation Model; Credit Rationing; Retail Banking: Mauritius; Wholesale Banking; An

Introduction to Banking Regulations; Financial Innovation; Portfolio Theory; An introduction to International Banking and Eurocurrency Markets.

MIBS 22412(1) Principles of Risk Management

Risk Management Assessment: Identify exposure to risk; analyze the risk, meaning measure the likelihood and severity of impact; Prioritize risk. Risk Control: risk mitigation, contingency planning and close managerial supervision. Risk Management Strategy: Methodologies and Policies

MIBS 28100(1) Global Business Activities

Features of an offshore center; Regulatory Bodies and Legislation; Protected Cell companies; Offshore Activities: Banking, Insurance, Offshore company and Trusts administration, Securities and investment management services, taxation services; Double taxation agreement; Anti money laundering systems and procedures.

MIBS 34100(1) Taxation relating to Businesses

Principles & Practice of Income Tax relating to individuals; Societies and Companies; Value Added Tax; Administration and procedures in relation to assessments; Objections and appeals.

MIBS 25212(1) Mathematics of financial and Investment analysis

Principles of Calculus; Matrix Algebra; Concepts of Probability; Optimisation, Stochastic, Integrals, Differential equations; Portfolio Selection; Term Structure Modelling; Bond Portfolio Management.

MIBS 34321(3) Tax Fraud and Prevention

The nature of tax fraud, hallmarks of tax fraud, civil v/s criminal, legal elements of tax fraud, detecting frauds, Fraud Prevention programmes

MIBS 74121(3) Fundamentals of Econometrics I

Classical Linear Regression Model: Hypothesis Testing. Multiple Regression Analysis. Breakdown of Assumptions: Heteroskedasticity, Serial Correlation, Multicollinearity, Measurement Errors, Endogeneity.

MIBS 21122(3) Investment Analysis I

Types of investment products, The Investment horizon, Factors to be considered when investing, Features of equities and of fixed income securities; Review of the time value of money; Portfolio Theory; CAPM applied in Investment Analysis; Types of Funds; Active v/s Passive investment; Fundamental Analysis; Technical Analysis; the EMH.

MIBS 22521(3) Advanced Risk Management 1

The Concept of Risk and Uncertainty and the Sources and Types of Risk; What is Enterprise Risk Management?; The Evolution of Risk Management and the Risk Management Process; Corporate Governance; Line Management; Risk Transfer; Risks and Derivatives.

MIBS 33122(3) Auditing Concepts and Practice

Nature of Audit; Regulatory Framework of Auditing; Appointment, Resignation and Dismissal of Auditors; Auditors' Rights, Duties and Liabilities; 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; Auditors' Independence.

MIBS 37120(3) Financial Statement Analysis

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

MIBS 22522(3) Advanced Risk Management 2

Risk Management Tools and Techniques; Market and Operational Risk Management; Credit Risk Management; Interest Rate Risk Management; Foreign currency risk management; Business Applications; Financing Projects, Their Risks and Risk Modeling; Risk Management at Corporate, Strategic Business and Project Levels;

MIBS 21231(3) Investment Analysis II

The asset allocation process; Institutional and Individual Investors; Benchmarking and Reporting; Strategic asset allocation; Tactical asset allocation; Performance measurement; Immunisation; Bond Analysis; Convexity and Duration; Bond Portfolio, Callable bonds, Puttable bonds.

MIBS 74122(3) Fundamentals of Econometrics II

Dummy Variables. Simultaneous Equation Models: Identification and Estimation Methods, Time Series Models: Distributed Lag Models, Unit Root Tests, Cointegration, and Error- Correction Models, Granger Causality, Introduction to VAR Modelling. Computer Applications.

MIBS 29122 Research Methods (Note 1)

Analysis of the science of research; Key Elements of Research; Research Designs; Data Issues; Hypothesis Development; Data Collection Methods; Causal Models; 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 Banking and Investment Literature. Introduction to Econometrics

MIBS 35122(3) 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; EVA; Extensions of EVA.

MIBS 23632(5) Banking Operations and Supervision

Managing Balance sheet exposure; Management of capital; Prudential control; Risk Management; Banking supervision and Regulation; Capital adequacy; Securitisation; Money markets; Spot and Forward markets; Government Securities; Defeasance.

MIBS 37331(5) Introduction to Forensic Accounting

Root causes of Fraud, Fraud deterrence cycle (corporate governance, transaction level, controls, retrospective examination, investigation), Auditing and investigation, bedrock of an effective audit management override, regulatory reaction to fraud, financial benefits of effective fraud management,

Financial Reporting Fraud and the Capital markets, Auditor's Responsibilities and Law, Forensic Investigation and Financial audits: a contrast; Red flags and Fraud detection techniques; Financial Statement Fraud.. Teaming with Forensic Accounting Investigators, Investigative Techniques, Data mining, Gathering and Documenting Evidence, Report of investigation.

MIBS 18131(3) Corporate Governance

The Regulatory Framework, Companies Act, Listing Rules, Accounting Standards; Accounting Issues in Financial Reports; Recognition and measurement; Role and responsibilities of Board of Directors; Role and responsibilities of Management, Internal Auditor and External Auditor; Users of Financial reports and their expectation; Risk management and internal control; Financial Accounting Theory and the need for regulation; Integrated sustainability reporting; Business ethics and Social duty of Business.

MIBS 24330(5) Capital Markets and International Finance

Capital and Financial Markets; Global Financial Markets; International Monetary System; International Parity Conditions; The Notion of Market Efficiency; International Financial Centers; The Regulatory Framework; Financial Crisis: Causes, measurement and possible solutions.

MIBS 27322(5) Money Laundering and Terrorism Financing

Offshore Business Activities; International and national regulations on money laundering; offshore centres and their respective application of the banking secrecy principle; cashless and electronic payment frauds; :legislation, prevention and repression; standards of payments on the internet and the associated risks; Role and methods of banking supervision related to fighting against money laundering.

MIBS 22232(5) Asset and Liability Management

Forming an Asset and Liability Management (ALM) committee; Selecting and implementing an ALM model; Developing an ALM policy- Liquidity gaps, interest rate gaps; Identifying and measuring the risks; Interest rate forecasting; ALM risk return reporting; Options and convexity risk in banking.

MIBS 26232(5) Applied Financial Modelling

Investment Financial Modelling; Financial Statement Modelling; Portfolio Models, Calculating the variance-Covariance Matrix, Calculating the efficient portfolios, Estimating Betas and the Security Market Line; Option-Pricing models, The Binomial Option-Pricing Model, The black-Scholes Model; Bonds and Duration, Immunisation Strategies, Modelling the Term Structure.

MIBS 27132(5) Compliance Issues in the Financial Services

Law and regulation; Relationship between civil and criminal law - Civil law Criminal law; Compliance and corporate governance; International corporate governance initiatives; Implications of BASLE II.

MIBS 29931(5) Dissertation

The assessment of final year project will be based on the implementation of a computerised solution to a real-life or research-oriented problem and the submission of a report. The length of the report should be in the range of 10,000–12,000 words.

WORKSHOPS

Communication (MIBS19531) and Negotiation (MIBS19631)

These workshops provide a broad analytical approach to effective negotiation and communications in business enterprises. Topics covered will include: Effective Communication; Negotiation Concept Skills; Persuasion Skills, Emotional Intelligence; Nature of Negotiations; Role of Power for Improving Negotiation Relationships and Conflict Management

Business Plan(MIBS19732)

Students will be expected to build up a real business concept and develop a business plan. The Plan will incorporate: the IP position, a marketing analysis, producing a business strategy and a financial analysis.

Improving your employability(MIBS19832)

Job search, CV writing, Preparing for job interview and the interview process