



UNIVERSITY
of
TECHNOLOGY,
MAURITIUS

School of Business, Management and Finance

Master of Business Administration
(Logistics and Supply Chain Management)

PROGRAMME DOCUMENT

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University of Technology, Mauritius

La Tour Koenig, Pointe aux Sables, Mauritius

Tel: (230) 207 5250 Fax: (230) 234 6219 Email: hchitto@umail.utm.ac.mu

website: www.utm.ac.mu

Master of Business Administration (Logistics and Supply Chain Management)

A. PROGRAMME INFORMATION

This course is open to graduates of any subject and is aimed at experienced middle-managers and professionals who have leading positions in senior logistics management. Our strategy is to train managers at the core of logistic businesses in solid competencies in organizing, planning, executing and controlling the supply chain generated for today's companies when they administer the flow of products, information and services, with people as their most important asset. This strategy results in a complete curriculum covering management, logistics, transportation and Supply Chain Management modules that are linked together to provide our participants a whole platform within business in logistics activities.

B. PROGRAMME AIMS

The programme aims to provide students with the specific skills in the management of logistics and supply chain which are key to effectively and efficiently manage the value chain in any type of organization.

C. PROGRAMME OBJECTIVES

The course equips participants with knowledge and skills relevant to business operations and strategy in a modern environment. Whilst providing a broad business background, it focuses on the management of the movement of materials, goods and labour, the supply chain, and issues in transport and distribution. This may be related to retail, passenger or freight applications, and may involve many forms of transport including air, sea, and road.

Rationalising the cost of such operations is a key task in many business organisations as part of cost-reduction strategies. The viability of an institution may be threatened if the right products are not delivered to the right people, in the right place, at the right time.

The course will develop the participant knowledge of the business environment, especially in regard to the management of logistics systems and the planning and delivery of logistics strategies. It examines the use of decision support systems and models related to logistics. Teaching will be augmented by high-profile lecturers from a wide range of private and public sector organisations.

PART I REGULATIONS

D. GENERAL ENTRY REQUIREMENTS

As per UTM'S Admission Regulations, and 'Admission to Programmes of Study at Masters Degree Level'.

E. PROGRAMME REQUIREMENTS

Admission decisions will be made by the School of Business Management and Law on a case to case basis.

Candidates must either be:

Graduates of a recognised university or other institutions of higher education with at least a lower second class honours degree or holders of an approved professional qualification deemed equivalent to an honours degree.

Or

A recognized Diploma in the relevant field with at least 5 years of work experience.

Or

An approved professional qualification recognized as being equivalent to an honours degree

Or

Other honours graduates or holders of an equivalent qualification may be admitted if they produce evidence which satisfies the School Board of their competence to pursue the programme;

Or

Other qualifications and/or experience which demonstrate that a candidate possesses appropriate knowledge and skills at standard acceptable by the Academic Council.

Overseas Candidates

Overseas candidates whose first language is not English and who do not hold a degree or equivalent professional qualification taught in English will be required to produce evidence of their competence in English.

F. PROGRAMME MODE DURATION

Part Time: 2 years, comprising 4 Semesters (Minimum Duration 2 years and Maximum Duration 4 years from date of registration).

G. TEACHING AND LEARNING STRATEGIES

The programme will employ a wide variety of teaching methods, including lectures, individual or group projects, presentations, workshops, case studies, field visits and talks by guest speakers. Blended learning mode can also be used whereby some of the classes can be done by using online learning management systems like Zoom, Google meet and Classroom amongst others. Self-learning will be the key feature of the programme, enabling students to explore, investigate and research into various topics, interact with practitioners, and work in teams on projects.

One module will carry 150 hours of learning comprising of 45 hours of delivery which could be any combination of face to face, blended, online, seminar, workshop, or joint session. The remaining 105 hours will cover self-learning, self-study, guest lecture, etc.

H. STUDENT SUPPORT AND GUIDANCE

In addition to traditional lectures, group tutorials or individual tutorials may be arranged for students on face-to-face or online.

I. ATTENDANCE REQUIREMENTS

As per UTM's Regulations and Policy.

J. CREDITSYSTEM

1 module = 6 credits as indicated in programme document (Each 6 credit module is taught over 15 weeks or equivalent block teaching)

Project / Dissertation = 18 credits

Post-Graduate Certificate: 30 credits

Post-Graduate Diploma (in area of registration): At least 60 credits

Master: 90 credits (inclusive of project/dissertation)

K. STUDENT PROGRESS AND ASSESSMENT

- Written examination shall be of duration of 3 hours for modules except where the paper is assessed by 100% Coursework.
- All modules are normally assessed over 100 marks, except for project/dissertation which will carry 300 marks.
- The overall pass mark for a module shall be 40%.
- The modules assessed by exams will be assessed as follows (unless otherwise specified):
 - written examinations contributing to a minimum of 50% of the total marks;
 - continuous assessment carrying to a maximum of 50% of the total marks. Continuous assessment can be based on seminars and/or assignments, presentations, online time-based assessments or class tests; and
 - In case of exceptional circumstances exceptional modes of assessment will apply.

Grading

Undergraduate / Postgraduate		
<i>Overall Marks</i>	<i>Grade</i>	<i>Remarks</i>
$70 \leq X \leq 100$	A	Excellent
$60 \leq X < 70$	B	Very Good
$50 \leq X < 60$	C	Good
$40 \leq X < 50$	D	Satisfactory
$X < 40$	F	Referred

L. EVALUATION OF PERFORMANCE

All modules carry equal weight, except for dissertation which counts for the equivalent of 3 modules at level M.

Note: APPLIED PROJECT/DISSERTATION

Candidates should compulsorily submit a business related project at the end of the final semester of the programme or a dissertation. The scope of the research will be assessed and approved through a project proposal that will be due after completion of Business Research Methods module. The project will mainly involve real business problem solving situation or will be on business administration themes as approved by the post graduate dissertation committee. The project should be around 10000-12000 words and will have to be defended in a viva-voce. The viva voce will carry 20% of overall marks. The objective of the Viva is to give students the opportunity to defend the dissertation and to give the supervisor and the second assessor an opportunity to ensure that the work has been done by the student.

M. AWARD CLASSIFICATION

Overall weighted mark y (%)	Classification
$y \geq 70$	MBA with Distinction
$60 \leq y < 70$	MBA with Merit
$40 \leq y < 60$	MBA
$y < 40$	No Award

N. PROGRAMME ORGANISATION AND MANAGEMENT

Programme Director and Coordinator: Dr H.Chittoo/Dr. Needesh Ramphul
Contact Details: School of Business, Management and Finance

- Telephone Number: 207-5250
- Email: hchittoo@umail.utm.ac.mu/ needesh.r@umail.utm.ac.mu

Part II – PROGRAMME STRUCTURE AND PLAN

Master of Business Administration (Logistics and Supply Chain Management)

O. PROGRAMME STRUCTURE

Semester 1			
Code	Modules	Hrs/Wk	Credits
ECON5101	Economics for Managers	3	6
ACCF5101	Financial & Managerial Accounting	3	6
MGMT5214	Operations Research	3	6
MMIS5208	Business Information Technology	3	6

Specialisation Modules:

Semester 2			
Code	Modules	Hrs/Wk	Credits
HRMT5207	Organisation Behaviour & Human Resources Management	3	6
PRSC5306	Logistics management	3	6
PRSC5307	E-Business in Logistics and Supply Chain	3	6
MGMT5218	Operations Planning and execution	3	6

Semester 3			
Code	Modules	Hrs/Wk	Credits
PRSC5401	Transportation Management	3	6
PRSC5308	Strategic Procurement and Supply Chain Management	3	6
PRSC5309	Decision Models for Supply Chain Management	3	6
QUAN5413	Business Research Methods	3	6

Semester 4			
Code	Modules	Hrs/Wk	Credits
DISS5000	Applied Project /Dissertation		18
	Workshops/Seminars		

P. MODULE OUTLINE

YEAR 1 , SEMESTER 1

MBA Code(ECON5101) Economics for Managers (6 credits)

The module presents the foundation to understanding how the economy works, covering microeconomic descriptions of business applications as well as some macroeconomic issues.

Content: pricing for profit maximisation, price elasticity, market structures and modelling of businesses in varying economic climates. Demand analysis and forecasting, production and costs, cost benefit analysis. Government role in the market and business strategies. Inflation, economic growth and international trade, Fiscal policy, Monetary policy, Foreign exchange policy. Foreign exchange markets. Emerging Issues.

MBA Code (ACCF5101) Financial and Managerial Accounting (6 credits)

This module provides a broad view of how accounting contributes to an organisation and how managers can make the best use of accounting information, accounting records, and systems, and accountants as internal resources for the purpose of making effective financial decisions.

Accounting is the primary channel for communicating the economics of any business. Managers must understand the concepts and language of accounting in order to use this critical tool effectively for communication, monitoring, and resource allocation.

Content: Understanding Accounting processes; financial reporting requirements of an entity, Understanding Annual Reports of companies; components of financial statements including statement of cash flows; Financial Statement Analysis using accounting ratios. Costs classifications; Costs allocation; marginal costing principle; Contribution analysis for short-term decision making; relevant costing techniques; CVP analysis and Budgeting and Case study analysis. Emerging Issues.

MBA Code (MGMT5214) Operations Research (6 credits)

The aim of this module is to provide students with an understanding of fundamental principles of management science. It is geared to develop skills in formulating basic mathematical models and familiarise students with the main algorithms used in management science. The unit also addresses the use of IT and quantitative methods for managing performance in organisations.

Content: Linear programming, decision analysis, the SIMPLEX method, duality and sensitivity analysis, transportation model and its variants, network models, goal programming, Forecasting models, Queuing systems, inventory models, simulation modelling, emerging issues.

MBA Code (MMIS5208) Business Information Technology (6 credits)

This module deals with the relevant issues of effective management of information services activities and highlights the application of ICT in business.

Content: Business Technology Landscape & Digital Transformation, Alignment of IT & Business Strategies, Demand & Supply of Technology Adoption, Data Usage: Data Warehouse, Data Mining, Big Data & Analytics, Business Intelligence leverage, Cloud, Mobile & Green Computing, Internet of Things, Artificial Intelligence, Machine Learning & Knowledge Management Systems, IT Project Management & Outsourcing, IT Methodologies & Frameworks, IT Governance, Audit, Risks & Security, Legal Aspects of IS & Compliance, Emerging Issues, Webinars/Seminars by Industry Guest Speakers, Project Based Assessment, emerging issues.

YEAR 1, SEMESTER 2

MBA Code (HRMT5207) Organisational Behaviour & Human Resource Management (6 credits)

The objective of this subject is to familiarise the student with management concepts and behavioural processes in the organisation which lead to a better grasp of functional human resource management issues.

Content: Managerial Processes, Functions, skills, and roles in an organization - an overview. Evolution of management theories, Organization structure, Motivation, Interpersonal communication, Group Dynamics, Leadership and influence process, Conflict Management. HRM Concept and Philosophy, HRM functions, HRD Instruments, Processes and Outcomes, Human Resource Planning – Concept, Quantitative and Qualitative dimensions, HRM in the changing environment, Recruitment and Selection, Job Analysis, Induction and orientation, Training and Development, Performance and potential appraisal, Rewards Management, Industrial Relations, Collective Bargaining, Grievance and Dispute, Employee Empowerment, emerging issues.

MBA Code (PRSC5306) Logistics Management (6 credits)

Logistics is the area of the supply chain that deals directly with customers and customer satisfaction. This module covers issues which are critical to supply chain performance as perceived by the customer, including finished goods inventory planning, transportation industry cost and performance structure, and other third party logistics services, especially warehousing, information technology, and integrated logistics services..

Content: Order Fulfilment Process and the Role of Internal Supply Chain Functions; Measurement Issues and Practices in the Supply Chain ; Transportation Cost Drivers and Structure of the Transportation Industry ; Other Cost Drivers Within the Supply Chain (such as warehousing); Planning the Logistics Network Using Operations Research Tools ; Operations Issues for Logistics with an Emphasis on Logistics Procedures and Legalities ; Third Party Logistics and Outsourcing; Logistics Decision Support Systems (such as SAP, Manugistics, and SAILS) ; Current and Best Practices in Logistics, emerging issues.

MBA Code (PRSC5307) E-Business in Logistics and Supply Chain (6 credits)

Logistics is the area of the supply chain that deals directly with customers and customer satisfaction. This course covers issues which are critical to supply chain performance as perceived by the customer, including finished goods inventory planning, transportation industry cost and performance structure, and other third party logistics services, especially warehousing, information technology, and integrated logistics services. It also deals with Electronic commerce for Supply Chain Management: process automation systems; operations resources management; purchasing systems; buying on the Internet; EDI; electronic catalogues; electronic auctions; electronic markets; buyer/supplier interfaces; cost/benefit analysis; technical issues; international business issues; legal issues; company case studies.

Content: Order Fulfilment Process and the Role of Internal Supply Chain Functions ;Measurement Issues and Practices in the Supply Chain ;Transportation Cost Drivers and Structure of the Transportation Industry ;Other Cost Drivers Within the Supply Chain (such as warehousing) ;Planning the Logistics Network Using Operations Research Tools ;Operations Issues for Logistics with an Emphasis on Logistics Procedures and Legalities ;Third Party Logistics and Outsourcing ;Logistics Decision Support Systems (such as SAP, Manugistics, and SAILS) ;Current and Best Practices in Logistics; Electronic Commerce for Supply Chain Management ;Process Automation Systems ;MRO Buying with Electronic Commerce ;Production Part Buying with Electronic Commerce; Services Buying with Electronic Commerce ;EDI ;EDI on the Internet ;Electronic Catalogues ;Electronic Auctions ;Electronic Markets ;Buyer/Supplier Interfaces ;Cost/Benefit analysis ;Security on the Internet ;Financial Transactions on the Internet, emerging issues.

MBA Code (MGMT5218) Operations Planning and Execution (6 credits)

The module contain topics such as ERP systems for production planning and control; Forecasting and demand management; scheduling systems; inventory systems; shop floor control; factory optimization; data requirements and processing; total quality management systems; quality certification approaches; statistical process control; process capability studies; and the design of experiments.

Content: Introduction to ERP Systems ; Forecasting and Demand Management ; Aggregate Planning ; MRP Systems; Shop Floor Control Systems; Capacity Planning Systems; JIT/ Kanban ; Inventory Systems ; Factory Optimization; Virtual Factories; Implementation Issues ;Data Requirements; Management Issues; Approaches to Total Quality Management ; Deming Philosophy; Baldrige Awards ; ISO 9000 ; Statistical Process Control ;Process Capabilities Studies ; QFD; Ishikawa Diagrams; Taguchi Methods; Inspection Systems ;Implementation and emerging Issues

YEAR 2, SEMESTER 3

MBA Code (PRSC5401) Transportation Management (6 credits)

The transportation system is the physical link connecting a company's customers, raw material suppliers, plants and distribution centres — i.e. the fixed points in a supply chain. The fixed points in the logistics system are where some activity temporarily halts the flow of goods in the logistics pipeline. Knowledge of the transportation system is fundamental to the efficient and economical operation of the company's logistics function. Transportation is the "thread" that connects a company's geographically dispersed operations, and adds value by creating time and place utility: the value-add comes from physically moving goods to the place desired and making goods available at the time desired. By the time you complete this unit, one should be able to:

Content: Define supply chain and explain the transportation–supply chain relationship; Explain how the transportation function adds value to a company; Outline the cost service trade-offs involved in the transportation decisions a company must make; Describe the basic decisions that a shipper must make in shipping goods and the main factors on which these decisions are based; Describe the basic modes of transportation and their service characteristics; Discuss the role and application of modern information technology in transportation management. One should know the wide range of issues facing managers in each of the transportation modes including decisions on market entry, pricing, competitive responses, service levels, capital structure, and growth objectives in a deregulated environment, emerging issues.

MBA Code (PRSC5308) Strategic Procurement and Supply Chain Management (6 credits)

The module comprises of management subjects suitable for a masters level qualification in Purchasing and Supply Chain Management and is designed for professional Practice at middle management and higher levels of management in this area.

Content: An Overview of Supply Chain Management Purposes and Processes; Strategic Supply Chain concept, Components of a Competitive Supply Chain; Organizational Structures and the Supply Chain; Supply Chain Design ; ;Trends That Make Strategic Operations, Insourcing /Outsourcing Decisions ; Quality Programs ;Relationship Analysis. Risk management in Supply Chain, Evaluating and Measuring performance in Supply Chain, Adding value, Strategic procurement management, Public procurement law, E- Procurement, Sustainable Procurement, Warehouse Design and operation, Demand and Inventory Planning, emerging issues.

MBA Code (PRSC5309) Decision Models for Supply Chain Management (6 Credits)

Introduction to quantitative models is to aid for decision making in supply chain management. Emphasis is on formulating realistic models to represent decision problems and on applying readily available spreadsheet tools to these models to gain useful managerial insights into the problems. Featured modelling approaches include optimization, risk analysis simulation, and decision analysis. Examples are included from a variety of areas such as those listed below.

Content: Production and Inventory Planning and Scheduling ; Transportation ; Logistics Facilities Location and Expansion ; Scheduling ; Aggregate Planning; Project Evaluation/Selection ; New Product Introduction; Resource Allocation; Procurement ;Portfolio Optimization; Risk Analysis/Management; Specifying Performance Metrics; Trade off Analysis ; Sensitivity Analysis ; Process Mapping, emerging issues.

MBA Code (QUAN5413) Business Research Methods (6 credits)

The aim of this unit is to introduce students to the practical aspects of management research. It shall expose students to different analytical techniques and covers aspects such as: foundations of research, sampling, data collection, data analysis and presentation of main findings. Upon completion, students will be able to design and formulate individual project proposals that will be assessed for the approval of the Applied Project/Dissertation.

YEAR 2, SEMESTER 4

YEAR 2, SEMESTER 2

DISS Code (DISS5000) Dissertation/Applied Project (18 credits)

The applied project is a major piece of work required for the fulfilment of an MBA award. Students are expected to demonstrate rigorous research skills and appropriate methodologies acquired during the course. The project must involve problem solving research and more details on the structure of the project will be made available through an MBA Project Guidelines (MPG). A student is expected to submit a thesis on the key findings at the end of semester 4. Students will be to defend the work through a presentation and viva voce and will be evaluated on the work done by him/her. The credit assigned to the project work is equivalent to that of 3 modules. Students are expected to maintain individual contact with their dissertation/project supervisor.

Workshops/Seminars

Different workshops/seminars will be conducted in close collaboration with Ministries, Private Sector, NGOs and other stakeholders with a view to increase awareness on Emerging Issues. Upon completion of this unit attendees will be awarded a certificate of attendance. Seminars will be normally held on Emerging Issues