



UNIVERSITY
of
TECHNOLOGY,
MAURITIUS

School of Business Management and Finance

**BSc (Hons) in
Logistics and Transport Management**

PROGRAMME DOCUMENT

VERSION 2.0

BLTM

May 2017

A. Programme Information

The logistics industry is an important driver of economic growth and development. It is being brought sharper into focus with Mauritius's aim to become a maritime hub, an air hub and the modernisation of inland transport system. This programme will equip students with logistics and transport management techniques and provide them with a wide understanding of how organisations incorporate and manage these functions. Students will also be taught key practical skills in the specialist subject areas required for a career in business, purchasing and supply chain management. In short the programme equips students with tools and techniques to manage the value chain. The component of work placement has been incorporated to allow students to gain hands on experience in the industry and at the same time identify an area of interest to write their dissertation.

Job Prospects:

Logistics is a booming industry, full of opportunity and growth. With globalization making even the furthest reaches of the globe more and more connected, now is a great time to be looking into the field of logistics. Jobs in the field of logistics and supply chain management include logistics manager, integrated programs director, supply chain director, inventory manager, supply chain planning manager, and other specified careers.

B. Programme Aims

The BSc (Hons) in Logistics and Transport Management has been designed to produce graduates who will work in the transport and logistic industry. The Programme aims to provide prospective students with the management and business skills applicable to this particular industry by enabling the students to acquire the necessary knowledge, skills and conceptual framework about Logistics and Transport Management that can be applied in different context.

C. Programme Objectives

- To equip students with the knowledge and the skills to contribute in logistics and transport sectors to enhance customer service and create value for organisations.
- To develop students' comprehension of the strategic dimension of business activity essential in undertaking a management role in any organisation and to place a priority on integrated management skills as a prerequisite to strategic business logistics.
- To equip students with general management skills to be effective in the logistics and transport sectors.

PART I - Regulations

D. General Entry Requirements

As per UTM's Admissions Regulations, and 'Admission to Programmes of Study at Degree Level' or APL / APEL requirements.

Note: Exemptions as per UTM regulations.

E. Programme Mode and Duration

Full Time: Min 3 years, Max 6 years
Part Time: Min 4 years, Max 7 years

F. 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, work placement and talks by guest speakers. Self-learning will be the key feature of the programme, enabling students to explore, investigate and research into the various topics, interact with practitioners, and work in teams on projects.

G. Student Support and Guidance

Each cohort of the programme is allocated a Programme coordinator who acts as a liaison between the students and school management and provides support for academic management of the programme.

H. Attendance Requirements

As per UTM's Regulations and Policy.

I. Credit System

1 credit = 15 contact hours

The modules carry 4 credits as per the programme structure.

Exit Points:

Certificate : 33 credits

Diploma : 69 credits

Degree : 105 credits

Ordinary degree as per regulations.

J. Student Progress and Assessment

The programme is delivered mainly through lectures, tutorials, and practical sessions. Students are expected to be as autonomous as possible and activities may include reading research articles, delivering presentations, taking part in quizzes, case-studying, amongst others.

Each module carries 100 marks and unless otherwise specified will be assessed as follows:

- Continuous assessment carry 30% of the total marks. Continuous assessment can be based on a combination of assignments, field study, workshops, surveys, practical and class tests;
- Module ‘Research Methods’ will be assessed over 100% coursework.
- Modules ‘Essentials of Statistics’ and ‘Statistics for Management’ will be assessed on a 50:50 coursework/exams basis. The coursework must consist of at least one class test and two assignments;
- Module ‘Lifeskills and Good Practices’ will be assessed over 100% coursework by the resource person(s) conducting the component.

Module Grading Structure

Undergraduate / Postgraduate		
Overall Marks	Grade	Remarks
$70 \leq X \leq 100$	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

K. Evaluation of Performance

The percentage mark at Level 1 contributes a 20% weighting towards the degree classification.

The percentage mark at Level 2 contributes a 30% weighting towards the degree classification.

The percentage mark at Level 3 contributes a 50% weighting towards the degree classification.

L. Award Classification

$y \geq 70$	1st Class Honours
$60 \leq y < 70$	2nd Class 1st Division Honours
$50 \leq y < 60$	2nd Class 2nd Division Honours
$45 \leq y < 50$	3rd Class Honours
$40 \leq y < 45$	Pass Degree
$y < 40$	No Award

M. Programme Organisation and Management

Programme Committee: Mr Needesh Ramphul (needesh.R@umail.utm.ac.mu), Dr Hemant Chittoo (CMILT) (hchittoo@umail.utm.ac.mu), Dr Nirmala Loung Poorunder (n.l.poorunder@umail.utm.ac.mu), Ms Havisha Vaghjee (hvaghjee@umail.utm.ac.mu), Dr Diroubinee M. Narrainen (d.mnarrainen@umail.utm.ac.mu).

Program Coordinator: Ms. Havisha Vaghjee

Contact Details:

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Part II - Programme Structure

N. BSc (Hons) in Logistics and Transport Management – Full time

YEAR 1 (Level 1)								
Semester 1				Semester 2				
Code	Modules	Hrs/Wk L+T/P	Credits	Code	Modules	Hrs/Wk L+T/P	Credits	
PRSC 1404	Purchasing and Supply Chain Management	3+2	4	QUAN 1103	Essential of Statistics	3+2	4	
MGMT 1101	Organisation and Management	3+2	4	PRSC 1403	Transport Economics	3+2	4	
ACCF 1102	Financial Accounting	3+2	4	ACCF 1104	Cost and Management Accounting	3+2	4	
PRSC 1405	Introduction to Logistics and Transport Management	3+2	4	MKTG 1107	Marketing Management	3+2	4	
				CLEN 1000	CLEn		1	
Certificate Level exit point								
YEAR 2 (Level 2)								
Semester 1				Semester 2				
Code	Modules	Hrs/Wk L+T/P	Credits	Code	Modules	Hrs/Wk L+T/P	Credits	
QUAN 2103	Statistics for Management	3+2	4	PLMT 2001	Work Placement		4	
HRMT 2104	Human Resource Management	3+2	4	PRSC 2403	Air Transport Operations	3+2	4	
PRSC 2402	Transport Planning and Techniques	3+2	4	QUAN 2203	Quantitative Methods for Management	3+2	4	
PRSC 1402	Transport Operations	3+2	4					
LLAW 2111	Contract Law	3+2	4					
UTM 2101C	Life skills and Good Practices		4					
Diploma Level exit point								
YEAR 3 (Level 3)								
Semester 1				Semester 2				
Code	Modules	Hrs/Wk L+T/P	Credits	Code	Modules	Hrs/Wk L+T/P	Credits	
PRSC 3302	Port Management and Shipping	3+2	4	MMIS 3215	Transport and Logistics Information Systems	3+2	4	
LLAW 2110	Law of Multimodal Transport	3+2	4	PRSC 3401	Public Transport Policy and Planning	3+2	4	
QUAN 3401	Research Methods	3+2	4	PRSC 3303	Bunkering Operations	3+2	4	
PRSC 3301	Logistics and Distribution Planning	3+2	4					
DISS 3000	<i>Dissertation</i>							8

O. BSc (Hons) in Logistics and Transport Management – Part time

YEAR 1 (Level 1)							
Semester 1				Semester 2			
Code	Modules	Hrs/Wk L+T/P	Credits	Code	Modules	Hrs/Wk L+T/P	Credits
PRSC 1404	Purchasing and Supply Chain Management	3+2	4	PRSC 1405	Introduction to Logistics and Transport Management	3+2	4
MGMT 1101	Organisation and Management	3+2	4	QUAN 1103	Essential of Statistics	3+2	4
ACCF 1102	Financial Accounting	3+2	4	PRSC 1403	Transport Economics	3+2	4
YEAR 2 (Level 1)				YEAR 2 (Level 2)			
Semester 1				Semester 2			
Code	Modules	Hrs/Wk L+T/P	Credits	Code	Modules	Hrs/Wk L+T/P	Credits
ACCF 1104	Cost and Management Accounting	3+2	4	QUAN 2103	Statistics for Management	3+2	4
MKTG 1107	Marketing Management	3+2	4	HRMT 2104	Human Resource Management	3+2	4
				PRSC 1402	Transport Operations	3+2	4
CLEN 1000	CLEn		1				
Certificate Level exit point							
YEAR 3 (Level 2)							
Semester 1				Semester 2			
Code	Modules	Hrs/Wk L+T/P	Credits	Code	Modules	Hrs/Wk L+T/P	Credits
QUAN 2203	Quantitative Methods for Management	3+2	4	PRSC 2403	Air Transport Operations	3+2	4
PRSC 2402	Transport Planning and Techniques	3+2	4	LLAW 2111	Contract Law	3+2	4
UTM 2101C	Life skills and Good Practices		4	PORT 2003	Portfolio		4
				Diploma Level exit point			
YEAR 4 (Level 3)							
Semester 1				Semester 2			
Code	Modules	Hrs/Wk L+T/P	Credits	Code	Modules	Hrs/Wk L+T/P	Credits
PRSC 3302	Port Management and Shipping	3+2	4	MMIS 3215	Transport and Logistics Information Systems	3+2	4
LLAW 2110	Law of Multimodal Transport	3+2	4	PRSC 3401	Public Transport Policy and Planning	3+2	4
QUAN 3401	Research Methods	3+2	4	PRSC 3303	Bunkering Operations	3+2	4
PRSC 3301	Logistics and Distribution Planning	3+2	4				
DISS 3000	Dissertation						8

P. MODULE OUTLINE *(This syllabus is non-prescriptive)*

PRSC 1404: PURCHASING AND SUPPLY CHAIN MANAGEMENT

The role of purchasing and supply as a key driver enabling the smooth flow of goods at optimum cost whilst meeting the specific requirements of the end user; examine the different approaches to managing the inputs to the supply chain and how the function can contribute to an efficient and effective organisation; how logistics and supply chain management helps to achieve the strategic objectives of an organisation; explore how managing strategically across the entire supply chain can help an organisation to achieve and maintain its competitive edge in terms of market share and / or profitability; diagnose problems within supply chains and demonstrate your grasp of how different supply chain strategies can positively impact the performance of the firm.

MGMT1101: ORGANISATION AND MANAGEMENT

Introduction to the different perspectives on management, understanding organizations, the evolution of the concepts of organizations and management; models and types of organizations: the classical and neo-classical organizations and modern approaches to the concepts. Management development; organization development; understanding people: roles, perceptions, norms, values, and attitudes; Human needs; theories of motivation; group dynamics and team building; issues in organization and management theories.

ACCF1102: FINANCIAL ACCOUNTING

Roles and Principles of Financial Accounting, Double Entry Book Keeping, Capital and Revenue Expenditure, Trial Balance, Preparation of Final Accounts for Sole Traders, Non-Profit Organisations and Companies, Cash Flow Statements, Control Accounts and Accounting for VAT, Accounting for Depreciation, Bad Debts and Provisions for Bad Debts, Fundamental Accounting Concepts and International Accounting Standards, Accounting Ratios and Interpretation, Financial Reporting and Users of Accounts

PRSC 1405: INTRODUCTION TO LOGISTICS AND TRANSPORT MANAGEMENT.

Introduction to the Logistics Concept. Historic trends in Logistics. The Distribution Centre: Location analysis and operations. The roles and functions of the logistics service provider e.g. liner company. Logistics and Marketing: Customer service and the design of the distribution, History of transport, issues in transport and accessibility (urban/rural issues, social exclusion), public transport users, the economics and comparative performance of different, demand for transport and trends, channel. Sustainable logistics. Future development in the Logistics industry.

QUAN 1103: ESSENTIALS OF STATISTICS

Introduction to Statistics; Type of data; Measurement and scaling techniques; Data collection and data preparation; Graphical representation of data; Measures of location and dispersion; Basic probability; Distribution of random variables: Binominal and Normal distribution; sampling distribution and estimation interval estimation.

PRSC 1403 TRANSPORT ECONOMICS

Introduction to transport economics, functions and economic interest of transport, modal characteristics, basic components of transport, demand for transport, supply of transport, cost of transport, pricing of transport services, transport and economic development, transport and urban development, Government regulations.

ACCF1104: COST AND MANAGEMENT ACCOUNTING

Role of Cost Accounting and its Link to Financial Accounting, Costing Concepts: Costs Classification and Behaviour, Accounting for Overheads, Introduction to Activity Based Costing, Costing Methods and Principles, Contract Costing, Relevant Costing and Contribution Analysis, Budgeting, Standard Costing Variance Analysis.

MKTG1107: MARKETING MANAGEMENT

Nature and scope of Marketing, the Marketing Environment, Marketing Research and Marketing Information Systems, Buyer Behavior - the buying behaviour of consumers and organisations, Segmentation, Targeting and positioning Framework, Marketing Mix - the 4P's, Product and Services, Place, Price, Promotion, The extended marketing mix, Services Marketing, Broadening the scope of marketing, Social Responsibility, Green Marketing, Ethics, Customer Relationship Management, Marketing Plan, Marketing Audit, Analysing Industry Attractiveness, BCG Model, Review of Marketing Mix Strategies.

QUAN 2103: STATISTICS FOR MANAGEMENT

Probability distributions (discrete and continuous data); Estimation by confidence interval; Hypothesis Testing; Regression analysis; Correlation; Elementary times series data; Forecasting

HRMT2104: HUMAN RESOURCE MANAGEMENT

Human Resource Management, Evolution of Personnel Management to Human Resource Management, Role of HR in modern organizations; Differentiating between job & tasks, Job creation, Job Description, Job Analysis, Job Evaluation, Recruitment & Selection, Training & Development, Reward & Performance Management, Contemporary issues in HR (Learning Organisations, HRIS

QUAN2203: QUANTITATIVE METHODS FOR MANAGEMENT

Introduction to Quantitative Methods; Operations management, Decision Analysis: Decision-Making Environments and Decision Trees; Linear Programming: Graphical and Simplex Method, Sensitivity Analysis; Transportation Models; Assignment Models: minimization and maximization cases; Network Analysis; Inventory Models.

PRSC 1402 TRANSPORT OPERATIONS

Transport operations management, determining the demand for transport, determining quality, fleet planning, routing, scheduling, exercising control over operations, vehicle movements and utilisation, and fleet productivity.

PRSC 2403 AIR TRANSPORT OPERATIONS

The economics of operating airlines and airports and the implications of competitive strategies for, marketing, the management of alliances and revenue management, Airport planning, externalities of airports, pricing airport use, the development of hubs and networks.

PRSC 2402 TRANSPORT PLANNING & TECHNIQUES

Transport and Travel in the Last Forty Years, The Evolution of Transport Planning: The 1960s and 1970s, Developments in Planning Analysis and Evaluation, Radical Policy Change, Contemporary Transport Policy. The Limitations of Transport Planning, Overseas Experience, The Role of Transport Planning.

LLAW 2210 LAW OF MULTIMODAL TRANSPORT

The background and role of freight forwarder, changes in the Shipping Industry and the impact on containerisation, Code de Commerce (role and obligations of 'expediteur', 'voiturier', 'le destinataire', 'le commissionaire', 'l'assureur', 'commerçant'), Convention de Varsovie, Protocole de la Haye, Merchant Shipping Law, Mauritius Port Authority, Distinction between unimodal and multimodal transport, Multimodal Convention 1980, UNICITRAL/ICC Rules for Multimodal Transport, Negotiable instruments in Multimodal trade

PRSC 3302: PORT MANAGEMENT AND SHIPPING

Introduction to International Trade and Logistics; Introduction to Port Management; Regulatory, Legal Issues and Insurance for Ports; Managing Marine Operations and Conservancy; Port Marketing and Business Development; Port Project Management: Principles and Techniques; Economics of Port Operations, Port Pricing and Port Financing; Health, Safety, Security and the Environment (HSSE) in Ports; Port Labour and People Management; Case Study: Current Issues in Port Management ;The different types of carriage contracts. How bills of lading contracts arise out of good being carried under charter parties. The aims of the international carriage regimes. Bills of lading contracts. Bills of lading as evidence of the contract of carriage. Bills of lading as the contract of carriage. The consignee's right of suit on the contract of carriage. The Hague-Visby Rules. The application of the Rules. A comparison with the Hague and Hamburg Rules. The carriage of goods in chartered ships.

MMIS 3215 TRANSPORT AND LOGISTICS INFORMATION SYSTEMS

Essentials of Information Systems (hardware, software, database, network, processes, web); Supply Chain Distribution and Management, Application for Supply chain executives; E-tools for transport and logistics: Traffic safety management, Intelligent transport systems, GPS, Flight information systems, Fleet and Freight Management Applications, retail logistics; Location systems: Digital maps, geographic information systems, transport network database; Information Acquisition: traffic detectors, time monitors, automatic incident detection; Information processing: data dictionary, data fusion, data exchange; Communication: fixed microwave links, optical fiber network, Beacons (DSRC), mobile network 8. Information Distribution: Signal for dynamic message, Internet, Telephony Points; Information Usage: Incident Detectors, Demand Management, Traffic and Congestion Monitoring; Emerging Technologies: Cloud Based Services, Mobile Services

QUAN3401: RESEARCH METHODS

Introduction to Research Methods; Research Ethics and Values; Research problems; Components of a Research Proposal; Planning the Research Process: Qualitative and Quantitative Research, Research Design; Handling of data and Analysis of data; Reporting of Research.

PRSC 3301 LOGISTICS AND DISTRIBUTION PLANNING

The developments in logistics, key strategic role of logistics, supply chain strategies, lean logistics, efficient customer response, the design and implementation of logistics strategies, the continuing integration of the supply chain, developments in e-commerce, the effects of lean and agile operations, measuring and improving performance, environmental issues and international views of logistics, GIS.

PRSC 3303 : BUNKERING OPERATIONS

Introduction to the shipping business and the bunker industry (Shipping markets, The impact of transport costs, Ship types, characteristics, operations and fuel requirements, International institutions, regulations and conventions for bunker fuel, Introduction to ports, terminals and agents); Historical and commercial development of the bunker business (Growth of independent suppliers and related risk transfer, Major operators and national oil company monopolies); Fuel demand in the shipping industry (Nature of bunker supply and demand, Recent developments in the market); The bunker business; Key bunkering ports and regions (Examples including Rotterdam, Singapore, Fujairah and Houston); Regulatory bodies (Jurisdictions and regional variations, Examples including Gibraltar Port Authority and Maritime and the Port Authority of Singapore); Key players and their relationships: suppliers, sellers, brokers, buyers, deliverers, vessel operators, surveyors, charterers and ship managers; ship and vessel bunkering strategy; online bunkering information systems; Bunker trading platform.

LLAW 2111: CONTRACT LAW

Contract law in England (offer, acceptance, consideration, promissory estoppel, terms, exclusion clauses, restraint of trade clause, misrepresentation, mistake, consumer protection and Sale of Goods), Contract law in Mauritius, Mauritian Case law, E-Commerce, International trade, Conflict of law, Jurisdiction, Arbitration and Conciliation, Confidentiality, Borrowers protection and loan agreements.

PRSC 3401 PUBLIC TRANSPORT POLICY AND PLANNING.

Demand for transport and trend, issues in transport and accessibility, the economics and comparative performance of different modes, the regulatory and institutional framework (definitions, rationale, alternative market options (private versus public ownership, deregulated versus regulated markets, competitive versus performance based contracts, illustrated by worldwide examples); financial environment of public transport (review of business principles, what is subsidy? Illustrated by examples of different systems in practice); planning/operation (public transport as part of transport system, which mode of public transport suits what conditions? strategic network planning and its relation to land use, public transport constraints, the case for public transport, global experience and lessons for public transport), planning pricing and marketing, innovations in rural transport, quality enhancement and the role of benchmarking.

DISS 3000: Dissertation

- A 10,000-12,000 words dissertation will have to be submitted at the end of the semester.
- The work submitted should conform to the Undergraduate Dissertation Guidelines.

CLEN1000: COMMUNITY LEARNING & ENGAGEMENT

Students should seek involvement with NGOs. Student participation involves for example, contribution in publication of reports, newsletters, active collaboration on an unexhaustive choice of community development or social enterprise projects. Successfully completed placements shall be testified by NGOs at which the engagement occur. Successful completion will lead to the award of one credit. More information available in the CLEn guidelines.

UTM 2101C: LIFE SKILLS and GOOD PRACTICES

This credit based component aims at preparing graduates for lifelong learning, good practices and increasing their employability skills based on modern workplace practices, requirements, standards as well as expectations. It will include: Employability Skills Development, Prevention of Corruption (The anti-corruption legal framework in Mauritius. The cost of corruption - corruption indicators. Whistleblowing and the role of the media in reporting corruption. Some international legislations and conventions. Effectiveness of local, regional and international strategies – Role and responsibilities of stakeholders. Corruption, money laundering and asset recovery. Regional and international cooperation in the fight against corruption – Emerging trends in the fight against corruption. Corruption as an ethical

issue. Integrity in Public life. Principles of good governance as antidote to corruption and Corruption risk management.), Good Governance, Personal Development Skills, Coping Skills, addressing Societal Challenges including Substance Abuse, Poverty, Climate Change, Social Media and Family problems. This component shall include workshops, seminars, discussion forums, guest lectures from professionals in different fields, debates, projects, skills portfolios or any other activity deemed necessary to enhance the employability skills of students. On the completion of the component, students shall be awarded **FOUR CREDITS** as specified in the programme document. More information will be available in the Life skills and Good Practices Guidelines.

PLMT2001: WORKPLACEMENT

Workplacement is monitored by a placement unit and is detailed in the University Workplacement Guidelines.

PORT2003: PORTFOLIO

Part time students who are in employment will have to submit a portfolio. The portfolio will have to follow the University work placement guidelines. Part time students, who are unemployed, will have to request for a work placement. They will then submit the portfolio as per University work placement guidelines. Assessment in both cases will be as per guidelines for assessment of work placement/portfolio.