



UNIVERSITY
of
TECHNOLOGY,
MAURITIUS

School of Business ,Management And Finance

MSc Transport Management

PROGRAMME DOCUMENT

VERSION 1.0

CODE MTM 1.0

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University of Technology, Mauritius

La Tour Koenig, Pointe aux Sables, Mauritius

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A. Programme Information

Public transport in the island is becoming increasingly demanding. Consumers, customers and environmental factors are imposing such pressure on the transportation system, that the management of logistics and transport has turned out to be one of the most challenging sectors of activity. This programme creates opportunities to holders of degrees in logistics and transport, economics, maths, project management, strategic management, research methods, ecology, environment protection, engineering, customer behaviour, applied statistics, marketing, logistics and supply chain management, operations management, and other related fields to explore new challenging prospects in the evergrowing transportation world. It is designed to meet the growing demand for highly qualified individuals with global perspective and mindset in the Logistics and Transport Management sector.

B. Programme Aims

The proposed programme aims at providing future specialists with technical knowledge of traffic and transportation, logistics management practices and principles; explaining how logistics and transport managers can respond to the challenges of the sector by using inter-organisational cooperative strategies within the transportation business; learning to use modern information technology, and integrating logistics as a core competency. A major aim will be to encourage professionals to design logistics systems for the optimisation of specific transport activities including: land, sea and air.

C. Programme Objectives

Expose prospective postgraduate professionals to areas of study related to transport and business logistics, traffic planning and traffic engineering; modelling of traffic and transport; software technologies and data analysis; operations research; geoinformatics; urban planning; transport economics; planning and management skills and other logistics and transport related fields. These professionals could then propose their competence in the following fields: product manufacturers and distributors, transport companies – local, regional or international; public and private authorities; transport infrastructure owners: land transport, airports and seaports, harbours and other transport infrastructures.

PART I - Regulations

D. General Entry Requirements

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

E. Programme Entry Requirements

Admission decisions will be made by the School of Business, Management and Finance on a case to case basis, subject to the approval of Academic Council.

Candidates must either be: Graduates from a recognised university or other institutions of higher education with at least a second class honours degree or holders of an approved professional qualification deemed 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

Applicants who do not satisfy any of the requirements as per Regulations or the above but who submit satisfactory evidence of having passed examinations or have acquired managerial experience which are deemed by the Academic Council to be equivalent to any of those listed.

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 and Duration

Full Time: 1 ½ Years

Part Time: 2 Years

Each academic year includes two semesters of 15 weeks each (excluding exam period) and each semester is comprised of activities of teaching and learning strategies.

G. Teaching and Learning Strategies

The programme will consist of a wide variety of teaching methods, including lectures, individual or group projects, presentations, workshops, seminars and case studies. Self-learning will be the key feature of the programme, enabling students to explore, investigate and research in various issues related to human resource management.

H. Student Support and Guidance

In addition to traditional lectures, group tutorials or individual tutorials are arranged for students. Whenever possibilities will be available, students will be encouraged to attend short term placements in institutions concerned with Logistics and Transport Management.

I. Attendance Requirements

As per UTM's Regulations and Policy.

J. Credit System

1 module = 3, 4, 5 or 6 credits

Project / Dissertation = 12 credits

All modules will carry 100 marks.

K. Student Progress and Assessment

- Written examination inclusive of reading time shall be of duration of 2 - 3 hours for modules carrying less or equal to 3 credits and not less than 3 hours for modules carrying more than 3 credits.
- All modules are normally assessed over 100 marks, except for project/dissertation where it shall be as specified in the programme document.
- The overall pass mark for a module shall be 40%.
- Where a module is assessed by both, coursework and exams, a minimum of 40% should be attained in
 - Coursework, and
 - Examination

Grading

| 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 |

L. Evaluation of Performance

For MSc:

The percentage mark contributes a 100% weighting toward the degree classification.

M. Award Classification

Overall weighted mark x (%) Classification

For MSc:

| | | |
|--------------------------------|---|--------------------|
| Master Degree with Distinction | : | $CPA \geq 70$ |
| Master Degree with Merit | : | $60 \leq CPA < 70$ |
| Master Degree | : | $40 \leq CPA < 60$ |
| No Award | : | $CPA < 40$ |

N. Programme Organisation and Management

Programme Director and Coordinator: Dr. Mahendrenath Motah

Contact Details:

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Part II - Programme Structure

O. MSc Transport Management – Full Time

| YEAR 1 | | | | | | | |
|--------------|-----------------------------------|---------------|---------|--------------|--|---------------|---------|
| Semester 1 | | | | Semester 2 | | | |
| Code | Modules | Hrs/Wk L/T | Credits | Code | Modules | Hrs/Wk L/T | Credits |
| PRSC 5412 | Transport Costing & Pricing | 2+1 | 3 | MGMT 5208 | Planning & Operations Management | 3+1 | 4 |
| PRSC 5413 | Infrastructure Management | 3+1 | 4 | LLAW 5112 | Transport Law & Regulations | 2+1 | 3 |
| PRSC 5414 | Strategic Transport Management | 3+1 | 4 | PRSC 5307 | Logistics Management | 3+1 | 4 |
| QUAN 5404 | Research Methods | 3+1 | 4 | DISS 5000 | <i>Dissertation</i> ** | | 12 |

* Research Methods will be assessed 100% by coursework

| YEAR 2 | | | |
|--------------|------------------------|---------------|---------|
| Semester 3 | | | |
| Code | Modules | Hrs/Wk L/T | Credits |
| MMIS 5212 | e- LTM | 3+1 | 4 |
| DISS 5000 | <i>Dissertation</i> ** | | |

** Dissertation starts in Semester 2. Credits earned at the end of Semester 3.

TOTAL NUMBER OF CREDITS: 42 (inclusive of Dissertation)

P. MSc Transport Management – Part Time

| YEAR 1 | | | | | | | |
|------------|--------------------------------|---------------|---------|------------|----------------------------------|---------------|---------|
| Semester 1 | | | | Semester 2 | | | |
| Code | Modules | Hrs/Wk L/T | Credits | Code | Modules | Hrs/Wk L/T | Credits |
| PRSC 5412 | Transport Costing & Pricing | 2+1 | 3 | QUAN 5404 | Research Methods | 3+1 | 4 |
| PRSC 5413 | Infrastructure Management | 3+1 | 4 | MGMT 5208 | Planning & Operations Management | 3+1 | 4 |
| PRSC 5414 | Strategic Transport Management | 3+1 | 4 | | | | |

* Research Methods will be assessed 100% by coursework

| YEAR 2 | | | | | | | |
|------------|-----------------------------|---------------|---------|------------|------------------------|---------------|---------|
| Semester 1 | | | | Semester 2 | | | |
| Code | Modules | Hrs/Wk L/T | Credits | Code | Modules | Hrs/Wk L/T | Credits |
| LLAW 5112 | Transport Law & Regulations | 2+1 | 3 | MMIS 5212 | e- LTM | 3+1 | 4 |
| PRSC 5307 | Logistics Management | 3+1 | 4 | DISS 5000 | <i>Dissertation **</i> | | 12 |
| DISS 5000 | <i>Dissertation **</i> | | | | | | |
| | | | | | | | |

** Dissertation starts in Semester 1 of Year 2. Credits earned at the end of Semester 2 of Year 2

TOTAL NUMBER OF CREDITS: 42 (inclusive of Dissertation)

Q. MODULE OUTLINE

CODE: PRSC 5412 Transport Costing & Pricing

Students will be exposed to the increasing demand from customers and consumers of the transportation industry, confronted with the ecological restrictions and financial factors influencing the management of logistics and transport. The need for proper planning and coherent transportation policy, freight forwarding, trade finance, custom clearances will be discussed. The study of the existing system and the introduction of other road, railway, airport and seaport systems will be analysed and critically appraised. The theory of traffic, transport: land, sea and air and urban planning; the theory of travel demand, the costs and pricing systems will be discussed.

CODE: PRSC 5413 Infrastructure Management

An assessment of the existing infrastructure, the flaws of the existing road network, the future transport infrastructure envisaged and the advantages and disadvantages of such infrastructure will be critically studied. The construction and maintenance of traffic infrastructure for the transportation system require economic infrastructure systems be it land, sea and air. The design and construction procedures of roads should take into consideration the interrelation between traffic and the environment; land use planning and transport planning – these will be important aspects of the lectures delivered for this module.

CODE: PRSC 5414 Strategic Transport Management

Students will be brought to analyse the basic principles and concepts in the assessment of the logistics and transport systems. Basics of traffic flow and traffic control will be introduced. Theoretical knowledge of traffic flow and traffic stream models will also be studied in relation to the local context. Transport, mobility, urban and rural planning; spatial and temporal traffic distribution and travel demand will be discussed during interactive lectures and exposes.

CODE: QUAN 5404 Research Methods

This module will introduce students to research methods used in academic and professional fields. They will be exposed to methodologies from both qualitative and quantitative perspectives. Lectures will offer students an overview of the different approaches involved in social research and other human research methods such as interviews, surveys, experiments, ethnographies and others. Emphasis will also be on the digital e-tools, mixed methods approaches, case studies and other research methods.

CODE: MGMT 5208 Planning & Operations Management

During the course of this module, students will be exposed to the operations functions in the transportation service and in the field of planning. The nature of operations management will be explained, the planning and control of transport will be discussed. Measures to improve the transport systems, the nature of the tasks involved in managing logistics and transport in the local context will also be dealt with. Designing transport systems, planning and optimising of specific transport activities – roads, railway, ships, airplanes; planning shipping and transport network design will be discussed. Developing solutions to traffic problems, traffic control; planning and devising intelligent transport systems will be the challenging topics exposed.

CODE: LLAW 5112 Transport Law & Regulations

This module will help students to study the opportunities created through the use of enforcement as a means of managing the performance of operations, infrastructure and traffic management within the transport sector. Road safety: - congestion, charging, parking, speed management and other restrictions to road users: pedestrians, two wheelers – all vehicles and people alike. Sea port, airport, railway, road network regulations, and law enforcement will be studied. Students will be encouraged to discuss and propose an economic framework for the management of enforcement activities and resources in relation to transportation law in the logistics and transportation sector.

CODE: PRSC 5307 Logistics Management

Students will be exposed to logistics management and related concepts: Logistics in the global economy, economic, ecological and socio-cultural aspects. Evolution of logistical thinking; basics of logistical system design and rationalization will be thoroughly discussed and explained. Public transport logistics; business process, logistic practices, logistic principles and integration of logistics as a core competency will be the core of this module; logistics and supply chain management; strategic transport and logistics marketing; strategic network management. Freight forwarding, trade finance, custom clearances will be dealt with during lectures.

CODE: MMIS 5212 e-LTM

Students will be exposed to the use of various e-tools in relation to transport and logistics. The module will bring them to look into the technical knowledge of traffic and transportation, logistics, software technologies data analysis, statistics, operations research, geo-informatics, planning and other related fields which could be influenced positive through the e-tools. Transportation models, traffic control models, traffic flow and other logistics and transport management models which can benefit from an e-perspective could be discussed. The local transportation system and its existing and forthcoming challenges could be analysed through new perspectives.

CODE: DISS 5000 Dissertation

Students will have to submit a dissertation/applied project in the form of an empirical study, quantitative or qualitative, conducted by the student himself /herself on some aspect of Logistics and Transport Management. A 15,000-18,000 words dissertation will have to be submitted at the end of the last semester of the programme leading to the Masters Degree. The work submitted should conform to the school's Postgraduate Dissertation Guidelines available at the registry.