

# MSc Operations and Logistics Management – E544 (Under Review) - Part-Time

## 1. Aims and Objectives

The MSc Operations and Logistics Management programme is distinctly multi-disciplinary and aims at providing students with a framework for improving the performance of the organisations they work for. The Programme has been specifically designed to equip students with problem-solving, technical and managerial skills and knowledge related to Operations and Logistics Management and to prepare them for professional careers in the local or international industrial and services sector. Students graduating from this programme will have acquired the required competencies to better manage plant operations for the purpose of developing competitive advantages within a global network. It aims to equip students with the skills and knowledge required to manage logistics in an increasingly complex and global supply chain and focuses on the development of creative thinking and proactive management for achieving high performance standards.

The aims of the programme are to enable students:

- To have a thorough understanding of the principles and theoretical frameworks related to Operations and Logistics in the manufacturing and services sector within a dynamic international business environment.
- To acquire knowledge, management skills and experience with a view to enhance the participants' ability to contribute to their own organisations' effectiveness.
- To conceptualise, design, analyse, synthesise, simulate and implement systems for both Operations and Logistics.
- To formulate strategies in terms of Operations and Logistics, which will constitute the foundation for developing long-term competitiveness.

## 2. Learning Outcomes

On successful completion of the programme, the students should be able to:

- Understand the requirements of successful operations and logistics management practices in the modern business environment.
- Identify and apply a range of operations management initiatives and techniques that can be considered in the development of operations strategies.
- Understand and apply a range of tools and techniques relevant to the optimization of operations, supply chain and logistics.
- Have an advanced knowledge about operations and logistics in general.
- Be able to identify operational challenges/problems in supply chain and logistics systems and to assert the relevance of models and methods to resolve them.

## 3. Teaching and Learning Methods

The teaching methods include formal lectures, tutorials and case study discussions. Lecture and tutorial materials will be made available to the students in advance for them to prepare for the lecture sessions.

For each module, the learners are expected to undertake self-study twice the number of lecture hours and use this time to study the materials provided and prepare for the tutorials and case studies.

Under the other learning methods, guest lectures by resource persons (international and industry) and field visits would be organised, which will be mandatory for students. Students are expected to use this time to dedicate to the assignments or mini-projects provided by the respective resource persons and prepare for tests and examinations.

#### 4. General Entry Requirements

Successful completion of an undergraduate degree with

- at least a Second Class or 50%, whichever is applicable or
- a GPA not less than 2.5 out of 4 or equivalent, from a recognised higher education institution.

**OR** alternative qualifications acceptable to the University of Mauritius.

#### Programme Requirements

- (i) At least a Second Class Honours Degree in Science, Engineering, Agriculture/Agriculture related subjects, Management or an equivalent qualification acceptable to Senate.
- (ii) Preference will be given to candidates with relevant work experience.

#### General and Programme Requirements – Special Cases

The following may be deemed to have satisfied the General and Programme requirements for admission:

- (i) Applicants who do not satisfy any of the requirements as per Sections 1.4 and 1.5 above but who submit satisfactory evidence of having passed examinations which are deemed by the Senate to be equivalent to any of those listed.
- (ii) Applicants who do not satisfy any of the requirements as per Sections 1.4 and 1.5 above but who in the opinion of Senate submit satisfactory evidence of the capacity and attainments requisite to enable them to pursue the programme proposed.
- (iii) Applicants who hold a full practicing professional qualification obtained by examination.

#### 5. Programme Duration

The Programme will be offered on a part-time basis. The duration of the Postgraduate Programme should normally not exceed 4 years (8 semesters).

	<b>Normal</b>	<b>Maximum</b>
Master's Degree:	4 Semesters	8 Semesters
Postgraduate Diploma:	4 Semesters	8 Semesters
Postgraduate Certificate:	2 Semesters	8 Semesters

#### 6. Minimum LCCS Credits Required:

Minimum No. of LCCS credits per year: 12

Maximum No. of LCCS credits per year: 48

- *For Degree Award*

	LCCS credits
Master's Degree:	72
Postgraduate Diploma:	48
Postgraduate Certificate:	24

- *For each Award*

	<b>Taught Modules</b>	<b>Project</b>
	<b>LCCS Credits</b>	<b>LCCS Credits</b>
Master's Degree:	54	18
Postgraduate Diploma:	48	
Postgraduate Certificate:	24	

## 7. Assessment and Deadlines

Students are required to register for modules which they intend to follow in a given semester on date(s) specified by the Faculty.

Each module will carry 100 marks and will be assessed as follows (unless otherwise specified):  
Written examination of 2-hour duration and continuous assessment of 40% of total marks.

Continuous assessment may be based on laboratory work, seminars, and/or assignments and should include at least one class test.

An overall total of **40%** for combined assessment and written examination components would be required to pass the module, without minimum thresholds within the individual continuous assessment and written examination. All modules carry equal weighting. The Project carries 18 LCCS credits.

### **Submission Deadlines for Dissertation:**

#### **For August intake the submission of dissertation will be:**

- First Draft: End of July of Final Year.
- Final Copy: Last working day of August of Final Year.

#### **For January intake the submission of dissertation will be:**

- First Draft: End of December of Final Year.
- Final Copy: Last working day of January of Final Year.

- *Plan of Study*

Students are required to submit at the end of Semester 1 a Plan of Study for their whole Programme of Studies, indicating the list of elective modules and in which semester each of them will be taken.

The University reserves the right not to offer a given elective module if the critical number of students is not attained and/or for reasons of resource constraints.

## 8. List of Modules

Code	Module Name	Contact hours	Self-Study (Hrs)	Other learning (Hrs)	LCCS credits
MECH 5103	Business Strategy and Operations Management	30	60	90	6
MECH 5104	Global Operations and Logistics	30	60	90	6
MECH 6103	Industrial Systems Analysis	30	60	90	6
MECH 5203	Research Methods	30	60	90	6
MECH 5205	Supply Chain Management	30	60	90	6
MECH 5202	Costing and Finance	30	60	90	6
MECH 6113	Principles of Law for Logistics	30	60	90	6
MECH 6204	Occupational Health & Safety	30	60	90	6
MECH 6222	Terminal and Warehousing Operations	30	60	90	6
<b>PROJECT</b>					
ENGG 6000	Project				18

### NOTE:

1. Students have to complete ALL core taught modules and the project work.
2. Each module will consist of 30 contact hours (this includes lectures and tutorials). The total contact (taught) hours of the programme therefore will be 300 hours. Students are expected to spend 600 hours in self-study and 900 hours in other learning activities.

*Other Learning Activities may comprise of the following:*

- Working on assignments;
- Sitting for Class Tests and preparation time for same;
- Sitting for Examinations and preparation time for same;
- Group work;
- Attending Workshops/Conferences recommended by the /Faculty;
- Fieldwork;

- *Site Visits/Trips;*
- *Presentations among peers;*
- *Experiential Learning;*
- *Placements/Internships;*
- *Guest lectures.*

- The Project will involve an equivalent of 540 working hours including direct supervision by a member of academic staff and/or an external supervisor.
- A minimum of 6 contact hours is scheduled per week (3 hours on weekdays and 3 hours on Saturday). However, students are expected to attend daily lectures normally scheduled after 4.00 p.m., for intensive modules taught in a period of two/three weeks by visiting lecturers.

## 9. Programme Plan - MSc Operations and Logistics Management

YEAR 1							
Semester 1				Semester 2			
Code	Module Name	Contact hours	LCCS Credits	Code	Module Name	Contact hours	LCCS Credits
MECH 5103	Business Strategy and Operations Management	30	6	MECH 5202	Costing and Finance	30	6
MECH 5104	Global Operations and Logistics	30	6	MECH 5203	Research Methods	30	6
MECH 6103	Industrial Systems Analysis	30	6	MECH 5205	Supply Chain Management	30	6
<b>Sub-Total</b>			<b>18</b>	<b>Sub-Total</b>			<b>18</b>
							<b>Sub-Total = 36</b>
YEAR 2							
Semester 1				Semester 2			
Code	Module Name	Contact hours	LCCS Credits	Code	Module Name	Contact hours	LCCS Credits
MECH 6113	Principles of Law of Logistics	30	6	MECH 6222	Terminal & Warehousing Operations	30	6
MECH 6204	Occupational Health & Safety	30	6				
ENGG 6000	Project						18
<b>Sub-Total</b>			<b>12</b>	<b>Sub-Total</b>			<b>24</b>
							<b>Sub-Total = 36</b>
							<b>Grand Total = 72</b>