

THE UNIVERSITY OF THE WEST INDIES

NEW TAUGHT GRADUATE PROGRAMME

MSc. LOGISTICS AND SUPPLY CHAIN MANAGEMENT

AIMS AND OBJECTIVES OF THE PROGRAMME

This MSc. Logistics and Supply Chain Management programme is designed for students with the necessary background in economics, management, mathematics, physics, information technology or engineering. The programme gives these students the ability to use their quantitative and analytical skills to solve problems arising in logistics and supply chain management.

The programme is designed to give managers and professionals the knowledge and expertise in logistics, operations management and supply chain management that will enhance their abilities to pursue careers in the manufacturing, transport, services and retail industry sectors, as well as in government. The programme examines the chain of activities that are engaged in moving products, services or information from initial suppliers, through the various stages of transformation until the final product reaches the client or customer.

LOGISTICS AND SUPPLY CHAIN MANAGEMENT

Logistics is concerned with the management of the flow of goods, information and other resources between a point of origin and a destination in order to meet the requirements of the end users. Logistics involves the integration of information, transportation, inventory, warehousing, material-handling, and packaging and occasionally security. Logistics management is that part of the supply chain which plans, implements and controls the efficient, effective forward and reverse flow and storage of goods, services and related information between the point of origin and the destination, in order to meet customer requirements, while satisfying legal and other restrictions.

Supply chain management integrates supply and demand management within companies and across companies. It encompasses the planning and management of all activities involved in sourcing, procurement, conversion and logistics management activities. It also includes the crucial activities of coordination and collaboration with supply chain channel partners, suppliers, intermediaries, third party service providers or customers.

There is a need for logistics and supply chain analysts with good modelling skills, who can identify logistic and supply chain problems and provide solutions to them. Graduates from this programme will find employment in the import and export sectors, retailing and distribution, manufacturing, transportation, health care and government

RATIONALE

The ability to organize effective and efficient supply chains is one of the crucial issues underlying the competitiveness of different types of organizations and the efficiency of government operations, and many organizations operating in competitive environments find that their survival often depends on their abilities to organize such supply chains or networks. However, the complexity involved calls for the expertise of people well trained in logistics and supply chain management.

There is a critical need for people with competence in logistics and supply chain management in the English speaking Caribbean and this proposed programme addresses this need. Furthermore, it offers an excellent opportunity for collaboration with Vila Velha University in Brazil, which has a well established programme in logistics and supply chain management. This collaboration will bring very significant benefits to The University of the West Indies and to the Caribbean region. If the programme is accepted, it will be the first such programme offered by any of the campuses of The Universities of the West Indies.

The aim will be to develop a programme that is globally competitive and regionally relevant and that will attract a diverse group of participants, allowing students to establish global networks or contacts. It is expected to draw primarily on students from Barbados and the OECS. However, given that there are no other similar programmes currently being offered within the region, it is very possible that this programme may attract a wider market. In particular, it is hoped that collaboration with Vila Velha University will help to attract students from Latin America. The ideal student mix will be approximately 50% drawn from Barbados and the OECS, 25% from the wider Caribbean and 25% from outside the region. Regional and foreign students will be targeted through posters, brochures, target marketing, educational fairs and specialized website.

CAMPUS: Cave Hill

PROGRAMME TITLE: Master of Science in Logistics and Supply Chain Management

AWARD: MSc. Logistics and Supply Chain Management

ACADEMIC UNIT(S) THAT WILL OFFER PROGRAMME: Department of Economics, Faculty of Social Sciences, Cave Hill Campus

Delivery mode: Face to Face

TOTAL CREDITS: 48

DURATION OF PROGRAMME: Full-time 15-18 months; Part-time maximum of 36 months (including research project)

START DATE: January 2011

PROGRAMME SUMMARY:

The programme will emphasize the practical and analytical aspects of logistics problems as well as the fundamentals of management science and supply chain management. It will give students, with the necessary quantitative background, the skills to apply their analytical abilities to solve problems in the areas of logistics and supply chain management. Students will learn how to implement a supply chain strategy within an organization and they will, at the same time, develop skills in forecasting, production planning, and service planning and scheduling. Emphasis will be given to analytical tools, information technology systems and computer programs because these are an integral part of a successful supply chain strategy. Students will gain a good appreciation of the role of client or customer buying behaviours in designing an efficient and effective logistics operation.

ACCESS AND SUPPORT

1. Admission to the programme will be open to persons with training in microeconomics and the requisite quantitative skills in mathematics and statistics, and who satisfy one of the following:

I. Entry Requirements for Degree Applicants:

Applicants under this category should have:

- a. A bachelor's degree or equivalent, in a relevant discipline, from a university or college acceptable to the University of The West Indies, with at least a second class honours.

Student with pass degrees will be considered if:

- They have at least (3) years managerial experience
 - They are successful at an interview conducted by a selected panel determined by the Department of Economics.
- b. Two letters of reference

II. Entry Requirements for Non-Degree Applicants:

The Department will limit entry to the programme under this option to no more than twenty five percent of a cohort.

The Department is mindful that a number of managers in the Caribbean are holders of either technical certificates or diplomas, or have significant years of management experience. It is

proposed that such persons should be allowed entry into the programme under the following conditions:

- i. They hold technical certificates or diplomas that can be assessed by the University of the West Indies;
 - ii. They have at least (5) years of managerial experience in the appropriate sector:
 - iii. They are successful at an interview to be conducted by a selected panel to be determined by the Campus Committee on Graduate Studies and the Department of Economics;
 - iv. They provide two acceptable letters of reference.
2. The programme will be delivered in a face to face mode.
 3. The library resources required for the programme are relevant books and journals in the subject areas. At present, the library provides physical and online access to many of the major journals in the subject areas covered in the proposed programme. However, if the programme is approved, the library's collection of books in the subject areas will need to be improved.

COURSE OF STUDY

The following describes the course of study which consists of ten (10) compulsory courses, two (2) electives (to be determined by the department) and a research paper. The programme can be completed in fifteen to eighteen (15-18) months of full time study or maximum of (36) months on a part-time basis and will consist of 48 Credit Hours. Special skills workshops will be offered throughout the programme.

1. Course Structure

The programme will consist of a set of core courses, covering the basic logistics and supply chain management functions. **Twelve core Courses (3 credits each) and a research paper.** Course descriptions are found in the Appendix 1.

Core Courses

1. Logistics 1
2. Strategic marketing
3. Transportation Administration
4. Operations Research I

5. Logistics information systems
6. Logistics 11
7. Strategic supply chain management
8. Operations Research II
9. Production management
10. International trade and exchange

And two of the following:

1. Forecasting
2. Transport econometrics
3. Computer simulation
4. Pricing and revenue management
5. Public sector Analysis
6. Project management
7. Any approved elective

Research Paper (12 credits)

The Research Paper, which carries twelve (12) credits, should not contain more than 15,000 words inclusive of footnotes/endnotes, bibliography/references, tables and appendices. A supervisor will be appointed to guide the candidate's research paper.

1. The proposed faculty include the following persons from UWI and persons from Vila Velha University will be announced latter. However, any non-UWI persons involved in the delivery of the programme will be limited to established scholars from universities.