

**DEPARTMENT OF LOGISTICS
UNIVERSITY OF STELLENBOSCH**

**POSTGRADUATE INFORMATION:
LOGISTICS MANAGEMENT
2021**

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LOGISTICS MANAGEMENT POSTGRADUATE MODULES

Anchor programmes:

BComHons (Logistics Management)

Programme module

Code	Module	Credits	Module Name
50407	778	120	BComHons (Logistics Management)

MCom (Logistics Management)

Programme module

Code	Module	Credits	Module Name
50407	879	180	MCom (Logistics Management) Full Thesis option

MCom (Logistics Management)

Programme modules

Code	Module	Credits	Module Name
50407	899	180	MCom (Logistics Management) Coursework- and Thesis option

MODULES FOR 2021				
Module number	Module	Code	Lecturer	Credits
First semester				
9	Customer Service and Logistics Interface Management [LM] [Compulsory]	11485 722	Ms A de Bod	15
11	Introduction to forecasting [LM] [Compulsory]	10911 723	Mr H Freiboth	15
31	Supply Management (Inbound) [LM] [Compulsory]	13077 714	Mr Harold Moses	15
17	Road transport management [TE]	59145 744	Mr JA van Rensburg / Mr M October	15
Second semester				
32	Supply Management (Outbound) [LM] [Compulsory]	13078 714	Prof L Goedhals-Gerber	15
25	Forecasting [OR]	10933 753	Prof JH Nel	15
28	Supply Chain Strategy Change Management and Governance [LM]	11482 742	Prof J Havenga	15
Pass Prerequisite: Module 11 or OR 3 is a pass prerequisite for Module 25		Research Seminar, first and second semester: Logistics Management BComHons 11047 773		30
		LM MCom 150 11238	884	
		(The 150 credit LM MCom program requires coursework of 30 credits)		
		180 11238	828	

Apart from the modules listed above, you may obtain a maximum of 30 credits from a related field of study that has been approved by the programme coordinator. Electives modules in related fields of study that will be offered this year:

- International Trade, Transport Infrastructure and Logistics – see Transport Economics information document
- Inventory Management – see PGDip (Transport and Logistics) information document

Other elective modules not being offered this year:

- Packaging Logistics Development
- Supply Chain Forecasting and Planning
- Supply Chain Performance Management and Technology Enablement
- Visual Supply Chain Data Analysis
- Warehouse Operations Management

MODULE 9

11485 722 CUSTOMER SERVICE AND LOGISTICS INTERFACE MANAGEMENT

Course objective

The ultimate effect of logistics and supply chain activities / processes should meet the targeted customer requirements. Managing the interface between sales and logistics is of vital importance. Balancing the performance-related and cost-related targets remains a challenge.

Customer service is the source of customer information. It also provides the customer with real-time information on scheduling and product availability through interfaces with the company's production and distribution operations. Customer service is also a process for providing significant value-added benefits to the supply chain in a cost-effective way.

Course content

1. Introduction to Customer Service and Logistics Interface Management
2. Customer service dimensions and measurement
3. Customer Service's role in demand management
4. Customer Service strategy development
5. Customer service performance management
6. The customer service and customer relationship process across the value chain
7. Reverse marketing or Supplier Development

Remarks

1. The module is presented during the first semester.
 2. The module counts 15 credits.
 3. The module is offered residentially only.
 4. This module is compulsory.
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MODULE 11

10911 723 INTRODUCTION TO FORECASTING

Course objective

Planning and control of logistic activities require accurate numerical estimates of:

- Future product and service volumes which will be dealt with in the logistic chain, and
- Future conditions which might impact on logistic activities.

Time series data, in particular economic data, form an integral part of these estimates. There are, however, general problems in time series data which must be addressed by the forecaster before making meaningful forecasts. The purpose of this module is to familiarise students with the identification of problems and the proper steps to be taken to avoid these problems. Students also develop competency in the use of computer software to be used for analysis and forecasting.

Course content:

1. Elementary statistics
2. Probability theory
3. Basic inferential statistics
4. The linear regression model and the method of least squares
5. Multicollinearity
6. Heteroscedasticity
7. Autocorrelation
8. Dummy and lag variables
9. Time series analyses
10. Applications in logistics

Remarks

1. The module is presented during the first semester.
 2. The module carries 15 credits.
 3. This module is available to residential students only.
 4. This module is compulsory for all students enrolled for the Honours program in Logistic Management and the Honours program in Transport Economy.
 5. Passing this module is a pass prerequisite for Module 25 (Forecasting).
 6. Students who have taken Operations Research 3 may not follow this module.
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MODULE 17

59145 744 ROAD TRANSPORT MANAGEMENT

Course objective

The road transport industry is highly competitive. Therefore it is imperative to have a thorough understanding of the appropriate management aspects in transport operations. In this module a selection of topics relevant to strategic, tactical and operations management are covered which are essential for successfully running a road transport firm.

Course content

1. The role of road freight transport in the logistical chain
2. Detailed vehicle costing and control
3. Financial aspects of vehicle purchasing, management and replacement
4. Client service and marketing of the transport product
5. Analysis of current road transport legislation

Remarks

1. This module is offered during the first semester.
 2. This module counts 15 credits.
 3. Logistics Management 244 and/or Transport Economics 318 and 348 is a pass prerequisite for this module.
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MODULE 25

10933 853 FORECASTING

Course objective

In addition to the general problems in time series data considered in Module 11 (Introduction to forecasting), there are several more intricate problems related to time series data which require more intricate techniques for the identification and forecasting process. Students are familiarised with these techniques in order to identify and solve these problems.

Course content

The module comprises three sections:

Section I

Revision of

- Basic inferential statistics
- The linear regression model and the method of least squares
- Diverging from basic assumptions
- Dummy and lag variables
- Test and evaluation criteria

Section II

Advanced forecasting techniques:

- Stationarity of time series
- Moving average and exponential smoothing models
- ARIMA models
- Short and long term models

Section III

Applications of Forecasting

- Data gathering and related problems
- Single and multivariate functions
- Modelling
- Presenting and interpreting modelling results

Remarks

1. The module is presented during the second semester.
 2. The module carries 15 credits.
 3. Module 11 (Introduction to forecasting) or Operations Research 3 is a pass prerequisite for this module.
 4. This module is available to residential students only.
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MODULE 28

11482 742 SUPPLY CHAIN STRATEGY, CHANGE MANAGEMENT & GOVERNANCE

Course objective

Derived from the business' strategy, a supply chain strategy defines how the supply chain should be configured and operated in order to compete on a national/internationally level, with capacity to be created ahead of demand and logistics costs to be lowered and collaborative initiatives on an industry level where appropriate. Students taking this module will learn the iterative process that is followed in the formulation of a supply chain strategy at a business unit, corporate and sometimes industry sector / regional level. To succeed in future, supply chain and business strategies (sales, marketing, and finance) must reflect an integrated design. Achieving full alignment between an organisation's strategic intent and its supply chain strategy, however still remains a major challenge. Alignment with the economic, social, technical and regulatory environment/requirements is becoming an ever increasing challenge.

Course content

1. Define and align the supply chain plans with that of organisation and industry and the country;
2. Scoping of strategic supply chain initiatives;
3. Establish the supply chain resource requirements;
4. Budget and business cases;
5. How to set up a system to communicate ideas and get buy-in from stakeholders at all levels;
6. Mechanisms for assessing progress and drive stakeholder commitment to change;
7. Process for making decisions;
8. Integrated metrics;
9. Maturity models to establish suitable organizational models.

Remarks

1. The module is presented during the second semester.
 2. The module counts 15 credits.
 3. The module is offered residentially only.
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MODULE 31

13077 714 SUPPLY MANAGEMENT (INBOUND)

Course objective

Students will learn the language of the subject matter and be equipped with the relevant procurement, supply and inventory management practices typically found in inbound segments of a manufacturing organization's supply chain (Source and Make). This module is designed to explore the procurement cycle within the context of supply chain management from acquisition to disposal of goods (and services). The major phases of supply management will be covered, i.e. generation of requirements, sourcing, pricing, agreement development, and post award activities including evaluation processes. Students will also be sensitized to the procurement decision interfaces with the other major business functions, including marketing, finance-accounting, operations, logistics, and research and development. The major operational/execution processes of the inbound supply chain will also be covered. It is based on a number of existing supply chain conceptual models that highlight these as core/functional skill areas.

Source - *The processes associated with ordering, delivery, receipt and transfer of raw material items, subassemblies, products and/or services.*

Make - *The process of adding value to products through, e.g. mixing, separating, forming, machining, and chemical processes.*

Course content

1. Supply Management: An Organizational Spanning Activity
2. Purchasing Descriptions and Specifications
3. Local and global sourcing, and trade considerations
4. Cost and Price analysis (Total Cost of Ownership)
5. Procurement risk management practices
6. Negotiation, contract formation, legal issues, and supplier management
7. Production and inventory control

Remarks

1. The module is presented during the first semester.
 2. The module counts 15 credits.
 3. The module is offered residentially only.
 4. This module is compulsory.
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MODULE 32

13078 714 SUPPLY MANAGEMENT (OUTBOUND)

Course objective

Students will learn the language of the subject matter and be equipped with the relevant practices typically found in outbound segments of an organization's supply chain (Deliver and Return). The Deliver section of the module will map out the major types of outbound supply chain configuration. It will consider process integration requirements and map out ideal process flows; conduct business process analysis and streamlining, and cover process control and quality management. The Deliver section covers essential elements needed to manage warehousing, packaging and materials handling activities (facilities management) as well as coordinate product deliveries (transport service providers). An overview of the use of relevant documentation to manage deliveries effectively is provided. Core aspects of maritime logistics are also covered. In the Return section of the module, practices to minimise the logistics environmental impact and waste are considered and product returns management and reverse logistics practices are explained.

Course content

1. Distribution channels;
2. The physical distribution concept ("outbound logistics");
3. Client service;
4. Transport, Warehousing, Materials handling, and Packaging function;
5. Distribution costing and control;
6. Information and control;
7. Logistics coordination and control;
8. Reverse logistics;
9. Sustainability.

Remarks

1. The module is presented during the second semester.
 2. The module counts 15 credits.
 3. The module is only offered residentially.
 4. The module is presented in English.
 5. This module is compulsory.
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