School of Engineering & Applied Science Module Description Engineering Systems and Management

Module Code: LT 2314

Module Title: Multimodal Transport Management

Module Credit: 20

School / School of Engineering & Applied Science

Subject Group: Engineering Systems & Management Subject Group

Staff Responsible: Constant IANNACCI

Aims and Objectives:

To integrate the different modes of transport within one module and make students understand and appreciate how logistics chains especially for international operations involve the use of several modes of transport.

At the end of this double module students should be able to:

- Explain the concept of Multimodal and Intermodal Transport and
- the different liability regimes applicable.
- Assess the importance of a multimodal approach in the organisation of international trade operations
- Modify the structure of a uni-modal transport services company into a multimodal operator.
- Plan and monitor the logistics of a physical international distribution chain.

Content:

INTRODUCTION:

- Assess the impact of new trade and international transport on the demand. - Determine the mechanism of a trade transaction - Explain, according to the payment method chosen, the level of risks (commercial and political) for both sellers and buyers. - Introduce the mechanisms reducing commercial and political risks in an international trade transaction. -Define and distinguish the concept of transport and multimodal transport. -Define precisely transfer points for each INCOTERM.

CHAPTER 1: FREIGHT FORWARDING AND CUSTOMS

SECTION 1: FREIGHT FORWARDING

This section explains and describes the business aspects of Freight Forwarding and the various activities of a Forwarding company in multimodal operations.

SECTION 2: CUSTOMS PROCEDURES

Students should be able to explain the necessity of customs duties and controls on imported, exported or transit cargo. They should be familiar with the existing international conventions/agreements and the structure of customs tariffs. In multimodal transport operations they should be able to select the most appropriate procedure and quantify all costs involved with those procedures.

CHAPTER 2: TRANSPORT

SECTION 1: ROAD TRANSPORT

Students should become familiar with the UK and EU main regulations of road transport mainly in terms of operations and liability. They should be able to select and calculate the costs of running a fleet of vehicles. Moreover students should be able to set up a tariff structure.

SECTION 2: MARITIME TRANSPORT, MARITIME CONTAINERS, AND MULTIMODAL TRANSPORTATION

Students should be in a position to give information on the EU regulations for sea shipments impacting multimodal operations, and most current types of ships in use. Students should be familiar with the documents used for sea carriage.

Students should be able to explain the functioning and the rules of international container shipments by sea. They should show knowledge of the most used container types, the necessary shipping documents and furthermore they should be able to explain the pricing structure of ocean freight for maritime containers in multimodal operations.

SECTION 3: AIR TRANSPORT

Students should understand EU regulations for air transport which impact on multimodal operations. They should be able to explain ground handling and the documentation procedures of air cargo transport. They should demonstrate also their familiarity with air-freight pricing.

SECTION 4: RAIL TRANSPORT

Students should be able to give information on the legal aspects of carriage by rail and they should be able to describe the rolling stock mainly for combined traffic by rail. They should be familiar with consignment notes and how to work with rail tariffs.

SECTION 5: INLAND WATERWAYS

Students should understand how inland waterway transport is organised in the UK and in the EU. They should also be able to list the most common barges and their particularities. They should be familiar with pricing of freight shipped in barges. Students should know and choose appropriately the most important navigable waterways in a multimodal transport operation.

CHAPTER 3: IMPLEMENTATION OF EFFICIENT MULTIMODAL SERVICES

This section will be based entirely on case studies and practical applications. The level of analysis will be both managerial and strategic.

The format will be discussion and analysis based on the knowledge acquired in the previous two chapters. Students working in teams will have to define and therefore decide the best strategy to implement multimodal services within transport operator organizations and also with shippers. Students will be asked to identify the concerns, consequences, in term of activities, and structure of multimodal strategy decisions.

Format: Lectures 11 lectures of 2 hours

Tutorials 11 sessions of 2 hours

Assessment: The first teaching period content and the second teaching

period are assessed separately. Students are required to pass both LT 2314A and LT2314B components. Each component

carries 10 credits

LT 2314A: (teaching period 1) Examination2 hours: 60%

Assignment: 40% teaching period 1

LT 2314B: (teaching period 2) Examination: 4 hours: 100%:

Reading List: A reading list is provided.

Programme(s) BSc Logistics

using this module: BSc Transport Management

Date: 27/10/2010