

## DEREE COLLEGE SYLLABUS FOR:

### MG 2125 PORT MANAGEMENT AND LOGISTICS - Level 5 (Spring 2013)

**15 UK Credits**  
**US CR: 3/03**

**PREREQUISITES:** MG 1010 Introduction to Shipping

#### **CATALOG**

#### **DESCRIPTION:**

Comprehensive understanding of ports' organization, function, operations and management. Knowledge of port planning. Development of an understanding of port competition and pricing. Fundamental knowledge of modern logistics with the emphasis placed on the position of ports in the logistics and supply chain.

#### **RATIONALE:**

Students specializing in shipping must understand the significance and challenges related to ports. Ports constitute an integral part of the logistics chain, their role goes beyond the traditional cargo-handling functions and they are faced with the challenge of having to provide value added services. The course analyses how ports are organized, managed and planned, and how ports interface with the logistics chain. The course provides knowledge and analysis of the principles and evolution of container terminal management, port indicators and supply chain management.

**LEARNING OUTCOMES:** As a result of taking this course, the student should be able to:

1. Define the role of ports, including in a through transport context, and their features, including different forms of ownership structure of ports.
2. Identify the interface of ports with logistics and the position of ports in the supply chain.
3. Analyze port performance and relevant quality management systems.
4. Describe the involvement of principal stakeholders in port management, port safety and port security (unions, customs, etc.).
5. Analyze port charges and port competition related issues.
6. Integrate port planning and development policies.

#### **METHOD OF TEACHING**

#### **AND LEARNING:**

In congruence with the learning and teaching strategy of the College, the following tools are used:

- a) Classes (they consist of lectures and class discussions)
- b) Office hours
- c) Use of blackboard site
- d) Use of simulation exercises

#### **ASSESSMENT:**

Coursework - <b>formative</b>	0	Problems/essay questions combination
Major written project ( <b>summative</b> )	40	Case-studies/simulation exercises/essay type
Final examination (2-hour, comprehensive) - <b>summative</b>	60	Problems/ essay questions combination

The formative coursework aims to prepare students for the final examination.  
The major written project tests Learning Outcomes 3,5,6.  
The final examination tests Learning Outcomes 1,2,3,4,5,6.

**INDICATIVE READING: REQUIRED READING:**

Khalid Bichou, Port Operations, Planning and Logistics, Informa, 2009, ISBN: 978 1 84311 8053

**RECOMMENDED READING:**

Agerschou H. et al., Planning and Design of Ports and Marine Terminals, Thomas Telford, 2004, ISBN: 0 7277 34989

Alderton P., Port Management and Operations, Informa, 2008, ISBN: 978 1 84311 750 6

Astle W.E., The Safe Port, Fairplay Publications Ltd, 1987, IS BN: 0 905045 91 2

Branch A. E., Elements of Port Operation and Management, Springer, 1986, ISBN: 97804 1225 2600

Branch A. E., Elements of Shipping, Routledge, 2007, ISBN: 0415 3628 65

Christodoulou-Varotsi I. and Pentsov D., Maritime Work Law Fundamentals: Responsible Shipowners, Reliable Seafarers, Springer, 2008, ISBN: 978 3 540 72750 7

Frankel, E.G., Port Planning and Development, New York, John Wiley & Sons Ltd. 1987, ISBN: 0 471 83708 3

Hwan Kim K. (Editor) & Gunther H.O. (Editor), Container Terminal and Cargo Systems: Design, Operations Management and Logistics Control Issues, 2007, Springer, ISBN: 3540 4954 95

Notteboom T. (Editor), Current Issues in Port Logistics and Intermodality, Garant (Coronet Books Inc.), 2002, ISBN: 9044 1129 02

**JOURNALS, MAGAZINES, OTHER SOURCES:**

Lopez R.C and Poole N., Quality Assurance in the Maritime Port Logistics Chain: the Case of Valencia, Spain, Supply Chain Management, vol. 3.1, pp. 33-44

Notteboom T.E. and Winkelmanns W., Structural changes in logistics: how will port authorities face the challenge? Maritime Policy and Management, vol. 28, 1, pp. 71-89

Journal of Maritime Policy & Management

Journal of Shipping & Transport Logistics

International Journal of Logistics Management

UNCTAD Monographs on Port Management:

The Management and Development of Human Resources in Ports, 1992, UNCTAD/SHIP/644

Marketing Promotion Tools for Ports, 1997, UNCTAD/SHIP/494(2)

Operations Planning in Ports, 1985, UNCTAD/SHIP/494(4)

**WWW RESOURCES:**

<http://www.iaphworldports.org> (IAPH)

<http://espo.be> (European Sea Port Organization)

[www.worldbank.org](http://www.worldbank.org) (see under Ports and Waterborne Transport)

**SOFTWARE REQUIREMENTS :** Internet, Excel and Word.

**INDICATIVE CONTENT:**

1. Diversity of port ownership forms and port operations
2. Port organization and management
3. Port quality assurance
4. Port safety and security
5. Role of statutory bodies and other stakeholders like trade unions
6. Human element at ports
7. Port indicators (e.g. berth planning, ship operation, quay transfer)
8. Container terminal planning and management
9. Proper container terminal capacity (PCTC)
10. Supply chain management principles
11. IT-based logistics systems
12. Concept of port logistics