## PRO 2203 WAREHOUSING & INVENTORY MANAGEMENT (Procurement Option)

**Short description**

The course makes an over view on inventory and discusses stock control the bullwhip effect and how to counteract it, designing and selecting warehousing lay out.

**Course objectives**

The course aims at:

* Classifying inventory and discuss stock control and materials requirement planning
* Discussing the bullwhip effect and how to counteract it
* Describing methods of stock documentation and valuation
* Explaining ways of designing and selecting warehousing lay out
* Discussing workforce management and information technology for paperless warehousing.

**Learning Outcomes**

At the end of the course the students should be able to;

* Apply and use warehousing and inventory management techniques
* To make case for emerging issues and future trends in warehousing and inventory management.
* Develop appropriate and cost effective inventory management procedures
* Advise management on appropriate warehousing system.

**Intellectual, Practical and Transferable Skills**

Students will be able to:

* analyze
* think critically
* evaluate
* synthesize information
* Solve Problems
* team work
* Communicate

**Teaching and Learning Pattern**

* Lecture method
* case studies,
* keynote lectures
* student-led seminar presentations
* Group discussions
* Mini research studies
* Site visits

**Indicative Content**

Inventory classification, stock control and materials requirement planning (MRP), Recognizing and reducing inventory: The Bullwhip effect and how to counteract it, Stock documentation, stock valuation and methods involved: Last In First Out, First In First Out, Storage systems and selecting optimal storage mode, Warehousing layout and design and selection, Order picking, Receiving , storage and retrieval systems, Workforce management, Information technology for paperless warehousing.

**Assessment Method**

The assessment method is structured to include coursework and final examination. Coursework consists of assignments, presentations and tests.

Each course in the programme shall be assessed on the basis course work and final examination represented as

Course work assessment 30%

Final Examination 70%

 100%

The minimum mark required to pass is 50%, this includes course work and final examination. Each course in the programme is allowed a maximum of three hours for final examination

**Indicative Sources**

1. Fogarty,D.W; Blackstone,J.H; and Hoffmann,T.R (1990) [Production and Inventory Management](http://www.amazon.com/Production-Inventory-Management-Donald-Fogarty/dp/0538074612/ref%3Dsr_1_7?ie=UTF8&s=books&qid=1245418461&sr=1-7))
2. Mercado, C. (2007)[Hands-On Inventory Management (Resource Management)](http://www.amazon.com/Hands-Inventory-Management-Resource/dp/0849383269/ref%3Dsr_1_6?ie=UTF8&s=books&qid=1245418461&sr=1-6)
3. Wild, T (2002)[Best Practice in Inventory Management, Second Edition](http://www.amazon.com/Best-Practice-Inventory-Management-Second/dp/0750654589/ref%3Dsr_1_5?ie=UTF8&s=books&qid=1245418461&sr=1-5)
4. Silver,E.A; Pyke,D.F and Peterson,R; (1998)[Inventory Management and Production Planning and Scheduling, 3rd Edition](http://www.amazon.com/Inventory-Management-Production-Planning-Scheduling/dp/0471119474/ref%3Dsr_1_4?ie=UTF8&s=books&qid=1245418461&sr=1-4)
5. Muller,M. (2003)[Essentials of Inventory Management](http://www.amazon.com/Essentials-Inventory-Management-Max-Muller/dp/081440751X/ref%3Dsr_1_3?ie=UTF8&s=books&qid=1245418461&sr=1-3)
6. American Management Association (1955) Company approaches to production problems: Inventory-warehousing
7. Van den Berg, J.P. (2007)[Integral Warehouse Management: The Next Generation in Transparency, Collaboration and Warehouse Management Systems](http://www.amazon.com/Integral-Warehouse-Management-Transparency-Collaboration/dp/1419668765/ref%3Dsr_1_1?ie=UTF8&s=books&qid=1245418461&sr=1-1)
8. Ross, D.F., (2003). [Distribution Planning and Control: Managing in the Era of Supply Chain Management](http://www.amazon.com/Distribution-Planning-Control-Managing-Management/dp/140207686X/ref%3Dsr_1_11?ie=UTF8&s=books&qid=1208451445&sr=1-11)
9. Institute of Management and Administration (2002).[The IOMA Handbook of Logistics and Inventory Management](http://www.amazon.com/IOMA-Handbook-Logistics-Inventory-Management/dp/0471442933/ref%3Dsr_1_2?ie=UTF8&s=books&qid=1208451445&sr=1-2)
10. Zipkin, P.H (2000)[Foundations of Inventory Management](http://www.amazon.com/Foundations-Inventory-Management-Paul-Zipkin/dp/0256113793/ref%3Dsr_1_11?ie=UTF8&s=books&qid=1245418461&sr=1-11)