## COX 3226 PRODUCTION AND OPERATIONS MANAGEMENT (3 CU)

**Course Description:**

The course is designed to provide students with the ability to understand basic Operations management concepts required in business operations. It orients students to theoretical and practical operations management issues required in business operations. The course brings out issues such as; Quality management, capacity planning and inventory management.

**Objectives or Aims:**

The course will help the students to achieve the following objectives:

* Understand the nature of operations management in given business settings
* Explain the transformation process in business operations
* Understand project management techniques
* Describe capacity and quality management techniques in different organization
* Determine appropriate inventory management techniques

**Learning Outcomes:**

Students should be able to:

* Describe the nature of operations management in any business setting
* Evaluate the transformation process of any given business venture
* Develop project, inventory, quality and capacity management techniques.

**Intellectual, Practical and Transferable Skills**

* Problem solving, Analytical skills, Teamwork, Communications skills

**Teaching and Learning Pattern**

* Lecture method, Case studies, Keynote lectures, Student-led seminar presentations

**Indicative Content**

Nature of operations management, the transformation process, concept of process analysis and choice such as; Job, batch, project flow, continuous and assembly line, project management including the critical paths analysis, Location and layout planning, capacity management, Quality management including the concept of Total Quality management, Facilities management, inventory management, production planning and control and Queuing theory.

**Assessment Method**

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

Course work assessment 30%

Final Examination 70%

100%

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

**Core reading textbooks**

1. Kakuru, J. (2004); *managing operations of the firm*. Concepts, challenges and responses. 1st edition Kampala; Business Publishing Group
2. Richard B. Chase; Nicholas J. Aquilano& Robert F. Jacobs (2001); *Operations management for competitive advantage*. 9th edition McGraw – Hill Irwin
3. Roberta S. Russel&Bernerd W. Taylor (2003); *Operations management*. 4th edition Prentice hall
4. William J. Stevenson (2007); *Operations management*. 9th edition, McGraw hill Irwin
5. [*Operations Management with Student DVD*](http://www.amazon.com/Operations-Management-Student-William-Stevenson/dp/0073290947/ref=pd_bbs_sr_1?ie=UTF8&s=books&qid=1208784820&sr=1-1) by William J StevensonHardcover - Jun 1, 2006)
6. [*Operations Management for Competitive Advantage with Student DVD*](http://www.amazon.com/Operations-Management-Competitive-Advantage-Student/dp/0073121665/ref=pd_bbs_sr_2?ie=UTF8&s=books&qid=1208784820&sr=1-2) by Richard B Chase, F. Robert Jacobs, and Nicholas J Aquilano(Hardcover - May 5, 2005)
7. [*Operations Management*](http://www.amazon.com/Operations-Management-Jay-Heizer/dp/013185755X/ref=pd_bbs_sr_3?ie=UTF8&s=books&qid=1208784820&sr=1-3) by Jay Heizer and Barry Render (Hardcover - Jun 2006
8. [*Operations Management: An Integrated Approach*](http://www.amazon.com/Operations-Management-Integrated-Dan-Reid/dp/0471794481/ref=sr_1_4?ie=UTF8&s=books&qid=1208784820&sr=1-4) by R. Dan Reid and Nada R. Sanders (Hardcover - Jan 2, 2007)
9. [*Principles of Operations Management*](http://www.amazon.com/Principles-Operations-Management-Jay-Heizer/dp/0131865129/ref=sr_1_6?ie=UTF8&s=books&qid=1208784820&sr=1-6) by Jay H. Heizer(Paperback - Jan 2006