

# KARACHI UNIVERSITY BUSINESS SCHOOL

## UNIVERSITY OF KARACHI

<b>BBA – VI (Hons.)</b>	
<b>Course Title</b>	<b>: PRODUCTION &amp; OPERATIONAL MANAGEMENT</b>
<b>Course Number</b>	<b>: BA (H) – 522</b>
<b>Credit Hours</b>	<b>: 03</b>

### **Objective**

The course introduces field of production / operations management. Topics to be covered represent a blend of concepts, industrial engineering cost accounting, general management, quantitative methods and statistics. This will include both operations as well as strategic issues as applied forecasting, aggregate planning, scheduling, shop floor control, total quality management, inventory management, facility layout and project management.

### **Course Contents**

1.     1.1    Introduction of Production / Operations Management
- 1.2    Importance of Operations Management and Productivity
- 1.3    Manufacturing and Services Operations
- 1.4    Operations as Competitive Weapon
- 1.5    Operations Strategy and Corporate Strategy
  
2.     2.1    Process Management
- 2.2    Process Choices and Process Design
  
3.     3.1    Management of Technology
- 3.2    Role of Technology and R and D
- 3.3    Technology as a Competitive Advantage
- 3.4    CAD / CAM / CIM and FMS
  
4.     1.1    Work-Force Management
- 4.2    Job Design, Job Specification, Job Description
- 4.3    Human Resource Planning, Training, Motivation
- 4.4    Total Quality Management
- 4.5    Quality as a Competitive Weapon
- 4.6    Statistical Process Control
  
5.     5.1    Capacity Planning
- 5.2    Location and Facility Layout Planning

- 6. 6.1 Simulation Analysis
- 6.2 Supply Chain Management
- 6.3 Materials Management
- 6.4 Materials and Requirement Planning and Master Production Schedule
- 6.5 Inventory Management Concepts and Inventory Control
- 6.6 Aggregate Product Planning
- 7. 7.1 Japanese Manufacturing Techniques
- 7.2 Just-in-Time System and Kanban System
- 7.3 Project Management
- 7.4 Project Planning and Scheduling
- 7.5 PERT/ CPM

### **Rooks Recommended**

1. Adam Everett Jr. and Ebert Ronald J., Production and Operations Management, Prentice Hall International UK Ltd. London. (5<sup>th</sup> Edition), 1996.
2. Buffa Elwood S. and Sarin Rakesh K., Modern Production/Operations Management, Prentice Hall, (8<sup>th</sup> Edition), 2002.
3. Dilworth James D., Production and Operations Management, McGraw Hill, (5<sup>th</sup> Edition), 1998.
4. Krajewski Lee). And Ritzman L. P. "Operations Management", McGraw Hill, (5<sup>th</sup> Edition, Weasly Longman, Inc. New York, USA, 1999.