

# M.Com. Part I

## Production and Operations Management

<b>Semester I</b>	<b>Subject Code</b> MCM 11503	<b>Lectures (Lects.):</b> 60
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### Objectives:

- To study and comprehend essentials of Production and Operations in the life of a manufacturing unit
- To make the students aware of the competitive practices in Production and Operations Management

### Unit 1: Introduction to Production and Operations Management

12  
Lects.

- Production and Operations Management:
  - Meaning
  - Importance
  - Characteristics of Modern Production and Operation Function
  - Manufacturing versus Service Operations
  - Functions of Production Management
  - Recent Trends in Production and Operations Management
- Facility Layout:
  - Factors influencing Facility Layout
  - Types of Facility Layout
- Production Planning and Control:
  - Functions of Production Planning and Control
  - Capacity Planning
- Service Operations:
  - Types of Service Operations
  - Scheduling for Services

### Unit 2: Product, Process and Work Design

12  
Lects.

- Product Design: concept
  - Characteristics of a good design
  - Approaches to a good Design
  - Stages of Product Design and Development
- Process Planning and Design:
  - Make or Buy
  - Major Process Decisions
  - Planning Process of Service Operations
- Design of Work Systems:
  - Types of Manufacturing Systems
  - Work Study



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27/06/15

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27/06/2015

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### Unit 3: Purchasing and Materials Management

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Lects.

- Material Requirement Planning:
  - Objectives
  - Operation of the Manufacturing Resource Planning System
  - MRP in Services
  - Enterprise Resource Planning:
    - Concept
    - Features
  - SAP system:
    - Concept
    - Features
- Scientific Purchasing:
  - Meaning
  - Purchase Procedure
- Storage system:
  - Functions of Storage Department
- Inventory management:
  - Meaning
  - Inventory Control Techniques

### Unit 4: Competitive Practices in Production Management

12  
Lects.

- Total Quality Control
- Statistical Quality Control
- Total Productive Maintenance
- Just-in-Time Systems
- ISO Certification
- HIRA (Hazard Identification and Risk Analysis)
- OHSAS (Occupational Hazard and Safety Management System)
- Kaizen five s<sup>2</sup>- GMP (Good Manufacturing Practices)
- 5S- Good Housekeeping System
- International Operations Management

- Industrial Visits
- Guest Lectures
- Project Work



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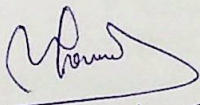
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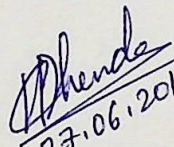
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## Reference Books:

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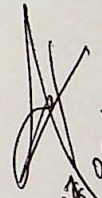
  
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27.06.2015

Rajni Singh  
27/06/15

G.H. Gidewani

Shankar  
27/06/2015

  
27/06/15

Bimbo  
27.6.15

Rama Venkat  
27/06/15

