

DR. BABASAHEB AMBEDKAR OPEN UNIVERSITY

SCHOOL OF COMMERCE & MANAGEMENT

M.B.A. SEMESTER – II (CORE)

PRODUCTION OPERATION

MBA02C205

Sr · N o.	Unit
1	Introduction to Production & Operations Management 1.1 Introduction 1.2 Historical Evolution of Production and Operations Management 1.3 Concept of Production 1.4 Production System 1.5 Production Management 1.6 Operating System 1.7 Operations Management 1.8 Managing Global Operations 1.9 Scope of Production and Operations Management Check Your Progress
2	Product & Process Design & Automation 2.1 Introduction to Production and Operation Management 2.1.1 The Product/ Process Continuum 2.1.2 Concept of Production 2.1.3 Production System 2.2 Process design 2.2.1 Classification of Production System: 2.3 Product Design 2.3.1 Idea generation 2.3.2 Feasibility Study 2.3.3 Rapid Prototyping and Concurrent Design 2.3.4 Final Design and Process Plans 2.4 Automation 2.4.1 Types of Automation 2.4.2 Advantages of Automation 2.4.3 Disadvantages of Automation Check your Progress

3	<p>Capacity Design & Layout Design PART 1 – DESIGN CAPACITY 3.1 Introduction 3.2 Capacity Management 3.3 Economies and Diseconomies of scale and Learning Curve 3.4 Capacity Strategies 3.4 Decision Trees Check Your Progress PART 2 – LAYOUT DESIGN 3.6 Introduction 3.7 Layout Planning 3.8 Layout types 3.9 Design of Product and Process Layout 3.10 Job Design 3.11 Work Measurement CHECK YOUR PROGRESS</p>
4	<p>Facility Location Planning 4.1 Concept and Introduction 4.2 Important Aspects of Localization of Industrial Unit 4.3 Stages of Selection of Location of a unit 4.4 Factors affecting industrial location Check your Progress</p>
5	<p>Project Management & Scheduling 5.1 Introduction 5.2 A Typical Project: The Global Oil Credit Card Operation 5.3 The Critical Path—Meeting the Board’s Deadline 5.4 PERT 5.5 CPM and Time-Cost Trade-Offs – Crashing the Project Check Your Progress</p>
6	<p>Inventory Management 6.1 Objectives 6.2 Introduction 6.3 Defining Inventory 6.4 Different Types of Inventory 6.5 Need for Inventory Management 6.6 Finished Goods Inventory 6.7 Independent and Dependant Demand Inventories 6.8 Inventory Costs 6.9 Inventory Classification - ABC Classification, Advantages & Disadvantages 6.10 Factors affecting Inventory Operations 6.11 Inventory Turnover as Indicator of Health Inventory and Business 6.12 Inventory Planning 6.13 Good Inventory Management Practices 6.14 Inventory Management Techniques Check Your Progress</p>

7	<p>Quality Management, Soc & Acceptance sampling</p> <p>7.1 Quality</p> <p>7.1.1 Dimensions of quality</p> <p>7.1.2 Costs of quality</p> <p>7.1.3 Types of Quality control</p> <p>7.1.4 Tools for Quality control</p> <p>7.2 Statistical process control</p> <p>7.2.1 Control Charts</p> <p>7.3 Acceptance sampling</p> <p>7.4 Six Sigma</p> <p>7.4.1 Six Sigma Maintenance Process</p> <p>7.5 Quality Standards</p> <p>7.5.1 ISO 9000 standards</p> <p>7.5.2 ISO 14000 standards</p> <p>Summary</p> <p>Check Your Progress</p>
8	<p>Jit & Lean Manufacturing</p> <p>8.1 Meaning</p> <p>8.2 History of Just-in-Time Manufacturing</p> <p>8.3 Benefits of Just-in-Time Manufacturing</p> <p>8.4 Requirements for implementing Just in Time</p> <p>8.5 Practical Applications of Just-in-time Production Philosophy</p> <p>8.6 Lean Manufacturing</p> <p>Check your progress</p>
9	<p>Service Design & Service Blueprinting</p> <p>9.1 Product and Service Product</p> <p>9.2 Designing Service Concept</p> <p>9.2.1 Core Benefits</p> <p>9.2.2 Supplementary Benefits</p> <p>9.2.3 Process of Delivery</p> <p>9.2.4 Service Sequencing</p> <p>9.3 Introduction to Service Blueprinting</p> <p>9.4 Definition of Service Blueprinting:</p> <p>9.5 Various Components of Service Blueprint</p> <p>9.6 Advantages / Importance / Benefits of Service Blueprint</p> <p>9.7 Process to Develop a Service Blueprint</p> <p>Check Your Progress</p>
10	<p>Green Manufacturing & Ethics in Operations</p> <p>10.1 Introduction to concept Green Manufacturing</p> <p>10.2 Meaning and definition</p> <p>10.3 Need for and importance of green manufacturing</p> <p>10.4 Forces driving green manufacturing</p> <p>10.5 Goals of green manufacturing</p> <p>10.6 How does green manufacturing works?</p> <p>10.7 Green manufacturing strategies and practices</p> <p>10.8 Benefits and challenges of green manufacturing</p>

	10.9 Present scenario and implementation of green manufacturing
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	10.10 Ethics in operations -meaning
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	10.11 Operation management and ethics
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	10.12 Importance of business ethics
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	10.13 Functions of business ethics
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	Check Your Progress
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