

**BBA 6<sup>TH</sup> SEMESTER  
DISCIPLINE ELECTIVE-IV**

**OPTION - A**

**BBA616D2A: PRODUCTION & OPERATIONS MANAGEMENT: MATERIALS MANAGEMENT**

**Credits: 06**

**COURSE OBJECTIVE:** This course aims to arm students with a comprehensive understanding of the field of Material Management from both a strategic and tactical perspective.

**Unit I:**

Materials management - An overview - Introduction - Scope - Objective - Importance; Integrated approach to Materials Management

**Unit II:**

Material Planning - Introduction - Factors affecting material planning - Techniques of material planning - MRP; Purchasing, Procedure & Pricing Issues - Receipt - Storage - Issue

**Unit III:**

Inventories - Definition-Classification of Inventories- Need for inventories - Merits & Demerits of Inventories, Inventory control techniques and principles - classification, codification, standardization - ABC analysis -VED, GOLF, FSN -HML

**Unit IV:**

Economic order quantity concept - Derivation of EOQ formula, modified EOQ, Case Studies.

**SUGESTED READINGS:**

1. Materials and logistics Management - Prof. Shailesh Kasande
2. Materials and logistics Management - Dr. L. C. Jhamb
3. Materials Management - Mr. K. K. Ahuja
4. An integrated approach to Materials Management - Gopalkrishnan & Sundersan

**BBA 6<sup>TH</sup> SEMESTER  
DISCIPLINE ELECTIVE-IV**

**OPTION - B**

**BBA616D2B: PRODUCTION & OPERATIONS MANAGEMENT: PRODUCTION PLANNING AND CONTROL**

**Credits: 06**

**COURSE OBJECTIVE:** To develop a broad conceptual framework based on the research which has been done in the recent past and to bridge the gap between the theoretical solutions and the real world problems in production planning and control. Contents:

**Unit I :**

Forecasting for Production: Objectives, Factors affecting accuracy of forecast, Methods of forecasting; Production Planning to meet regular and Seasonal demands, Routing, Loading, Scheduling dispatching and Progress Chart.

**Unit II:**

Aggregate Planning, Job Shop Planning, Line Balancing, Planning Versus Execution.

**Unit III:**

Materials requirement Planning, Perspective, Bill of Materials, Master Production Schedules, Inventory Status, Methodology, Explosion of requirements, Determining gross/Net requirement and various reports.

**Unit IV:**

Various documents used in Production Planning and Control. Application of Computers in PP and C; Role of Inventory Planner in Production Planning, Use of Inventory turn to stimulate Productivity improvements, effect on service level, ROI, Integration of Sales forecast, Production Planning and Inventory Management.

**SUGGESTED READINGS:**

1. Principles of Production Control - Burbidge
2. Production and Inventory Control Handbook - Greene, James H.
3. Production and Inventory Control - Mc Leavey, Dennis W. And Narasimohan S.L.
4. Manufacturing Planning and Control - Valiman T.E. and Others