

## **JYOTI NIVAS COLLEGE AUTONOMOUS**

**Programme: B.Com LSCM**

**MATERIALS MANAGEMENT**

**Course Code : 24IIIIBLSM04**

**Semester: III**

**No. of Hours: 60**

**No. of Credits: 4**

### **COURSE OBJECTIVES:**

- To understand how the knowledge of materials management can be an advantage to logistics and supply chain operations.
- To sensitize the students on the materials management functions – Planning, Purchase, Controlling, Storing, Handling, Packaging, Shipping and Distributing, and Standardizing.
- To realize the importance of materials both in product and service.

### **LEARNING OUTCOMES:**

- To understand the importance of materials management in an organization.
- To learn how to apply materials requirement planning techniques.
- To understand the different types of inventory control systems.

### **UNIT 1: INTRODUCTION TO MATERIALS MANAGEMENT 10 HRS**

Meaning, Need, scope, functions and advantages of Materials management; materials requirement planning (MRP) and budgeting; Internal and external interfaces of materials management, Linkages with other areas of management, costs associated with MM.

### **UNI 2: PURCHASING MANAGEMENT 10 HRS**

Purchase system, types, policy and procedure; sourcing plan; Discovering, evaluating and selection of suppliers, vendor development and management, legal aspects, E-procurement-meaning, benefits, green purchasing -meaning, benefits.

### **UNIT 3: STORES MANAGEMENT 12 HRS**

Stores system and procedures; stores accounting and stock verification; different types of material losses, disposal of surplus and scrap, documentation in stores management.

### **UNIT 4: MATERIALS PLANNING AND CONTROL 14 HRS**

Definition, Importance, Function, Classification of Inventory, Inventory related Cost, Objectives of Inventory planning and Control, Types of Inventory Situations; Selective Inventory Control Model- ABC Analysis, VED, XYZ, FSN, SOS, GOLF, EOQ Model, P&Q System, Concept of JIT, Elements and benefits of JIT; Materials Requirement Planning (MRP), Process of MRP, Benefits & limitations of MRP; Inventory Control Process – Perpetual Review, Periodic Review, Modified Control; Materials Audit.

### **UNIT 5: INVENTORY SYSTEMS AND VALUATION 14 HRS**

Traditional inventory management system, ,Fixed order Interval system(FOIS), Fixed order quantity system(FOQS), Operational replenishment system (ORS); Inventory counting systems- perpetual and periodic inventory systems; new paradigms in inventory and purchase systems.

**SKILL DEVELOPMENT ACTIVITIES:**

- Analyze the material management of any select five companies of different sectors.
- Visit any business organisation and collect the documentation of their store management.
- Visit any business organisation and collect the information on the material requirement planning and budgeting adopted by them.
- Collect the information on valuation of inventory management of any business organisation.
- Visit any business organisation and collect information on inventory control system adopted by them.
- Any other activities, which are relevant to the course.

**BOOKS FOR REFERENCE:**

1. Nirmala, M, Solomon Jayakumar and Raju G.S (2021), Material Management, Jayvee International Publications, Bangalore.
2. Inventory Management – K. ShridharaBhat, Himalaya Publishing House
3. Inventory Management – L.C. Jhamb, Himalaya Publishing House
4. Introduction to Materials Management –J R Tony Arnold, Pearson Education, 5th edition
5. Materials Management : An integrated Approach, M Sundaresan and P Gopalakrishnan, PHI
6. Dutta A.K., Materials Management: Procedures, Text and cases, Prentice Hall of India Pvt. Ltd., New Delhi.
7. Shah N.M. An Integrated concept of Materials Management, Indian Institute of Materials Management, Baroda Branch, Baroda.

**Note: Latest edition of text books may be used.**