

MF5006 MATERIALS MANAGEMENT

DETAILED SYLLABUS

OBJECTIVE

To introduce to the students the various concepts of materials management

UNIT I INTRODUCTION

Introduction to materials management – Objectives – Functions – Operating Cycle – Value analysis – Make or buy decisions.

UNIT II MANAGEMENT OF PURCHASE

Purchasing policies and procedures – Selection of sources of supply – Vendor development– Vendor evaluation and rating – Methods of purchasing – Imports – Buyer – Seller relationship– Negotiations.

UNIT III MANAGEMENT OF STORES AND LOGISTICS

Stores function – Location – Layout – Stock taking – Materials handling – Transportation – Insurance – Codification – Inventory pricing – stores management – safety – warehousing – Distribution linear programming – Traveling Salesman problems – Network analysis – Logistics Management.

UNIT IV MATERIALS PLANNING

Forecasting – Materials requirements planning – Quantity – Periodic – Deterministic models– Finite production.

UNIT V INVENTORY MANAGEMENT

ABC analysis – Aggregate planning – Lot size under constraints – Just in Time (JIT) system.

REFERENCES

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3. G. Reghuram, N. Rangaraj, Logistics and supply chain management – cases and concepts, Macmillan India Ltd., 2006.

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Notes
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www.AllAbtEngg.com

4. Gopalakrishnan.P, Handbook of Materials Management, Prentice Hall of India, 2005.
5. Guptha P.K. and Heera, Operations Research, Suttan Chand & Sons, 2007.
6. Lamer Lee and Donald W.Dobler, Purchasing and Material Management, Text and cases, Tata McGraw Hill, 2006.