4 th semester 21MBA402K M	terial Handling in Logistics	L-T-P 3-0-0	3 credits	35 Hours
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Course objective:

- It should be able determine appropriate distance to be covered in logistics.
- To Facilitate the reduction in material damage as to improve quality.
- To know how to reduce overall manufacturing time by designing efficient material movement.

MODULE-I

History of Materials Handling – Need of Materials Handling – Importance of Materials Handling – Advantages of Materials Handling – Disadvantages of Materials Handling – Functions involved in Material Handling – Types of Layout & Performance of Layout.

MODULE-II

Principles and their Uses – Preliminary Considerations – Principles of Material Handling Equipment – Factors in Selection of Material Handling Equipment – Materials Handling and Role of Management Selection of Materials Handling Equipment – Economics of Material Handling Equipment – Cost Considerations – Cost Analysis – Cost Account and Material Handling – Cost Indices

MODULE-III

Hoisting Machinery – Elevating Equipment – Cranes – Important Parts of cranes – Types of cranes – Rotatory or Revolving Cranes – Bridge & Mobile Cranes.

Conveying Equipment – Traction Type Conveyors – Traction less Type Conveyors – Surface Tension Equipment – Narrow gauge equipment – Cross Holding Equipment – ODC Material Handling.

Books:

- 1) R.B.Choudary & G.R.N.Tagore, Plant Layout, and Material Handling, Khanna Publishers.
- 2) Jacob Fruchtbaum, Bulk Materials Handling Hand Book, CBS Publishers & Distributors.
- 3) Dr.K.C.Arora, Vikas V.Shinde, Aspects of Material Handling, Laxmi Publications (p) Ltd.

