

MBPC4019 PORT MANAGEMENT FOR LOGISTICS (3-0-0)

Course Objectives:

1. To be familiar with working of ports and airports.
2. To understand the operating procedures of logistics at port and airport.
3. To be familiar with norms of logistics at port and airport.
4. To be aware of the development of facilities at the port in the era of globalization.
5. To be able to analyse the performance of standard operating procedures at port and airport for cargo.

Module-I

Port Structure and Functions:

Definition, types and layout of the ports, organisational structure – fundamental observations.

Main functions and features of ports: infrastructure and connectivity, administrative functions, operational functions.

Main services: services and facilities for ships – administrative formalities, cargo transfer, services and facilities for cargo, additional "added value" services.

Ports and their stakeholders like PHO, immigration, ship agents, stevedores, CHA.

Module-II

Port Operations:

Berths and terminals, berth facilities and equipment, ship operation, pre-shipment planning, the stowage plan, and onboard stowage, cargo positioning and stowage on the terminal.

Developments in cargo/container handling and terminal operation.

Safety of cargo operations, cargo security: measuring and evaluating performance and productivity.

Port Development:

Phases of port development, growth in world trade, changes in growth, development in terminal operation.

Shipping technology and port: ship knowledge, ship development and port development, port time and ship speed, other technical developments affecting ports.

Module-III

Port Administration, Ownership and Management:

Port ownership structure – types of port ownership and administration, organizations concerning ports, boards governing the ports, port management development, rise and fall of ports, information technology in ports.

Port ownership in Indian context: acts governing the ports in India, port ownership structure in India.

Managing emergency situation, risk assessment for cargo threats, natural disasters, and cyber threats

Port reform: framework for port reform, evolution of ports in a competitive world, alternative port management structure and ownership models.

Air Transport:

Introduction to air transport, air freight, IATA, cargo handling of goods at airport, information management of air cargo – systems and modules, distribution of goods.

Course Outcomes

CO1 Apply standard operating procedures and cargo handling protocols in port and airport logistics operations

- CO2 Analyze port and airport infrastructure, stakeholder roles, and logistics networks in global trade contexts
- CO3 Evaluate performance metrics, safety standards, and productivity indicators in port and air cargo operations
- CO4 Design logistics strategies and reform models for port and airport development in a competitive global environment

Books:

1. N.V. Suresh, D. Rajesh, V. Suganya, Logistics and Air Cargo Management, Iterative International Publisher, LLP
2. Patrick M. Alderton, Port Management and Operations, Information Law Category, U.K.
3. World Bank, Port Reform Tool Kit, World Bank, Washington
4. Maria G. Burns, Port Management and Operations, CRC Press, U.K.
5. Alan E. Branch, Elements of Shipping, Chapman and Hall, Fairplay Publications, U.K.
6. De Moni, Measuring and Evaluating Port Performance and Productivity, UNCTAD, New York