

MBPC3037 LOGISTICS MANAGEMENT (3-0-0)

Course Objectives:

To analyse the supply chain scenario and to make understand the student's insights on the supply chain process from sourcing to distribution.

To enhance the supply chain integration and sustainable supply chain strategic skills among the students.

Module I:

Logistics management and Supply Chain management - Definition, Evolution, Importance. The concepts of logistics and Supply Chain Management, Key Drivers of Supply Chain Management and Logistics relationships.

Basics of Transportation: Transportation Functionality and Principles; Multimodal Transport: Modal Characteristics; Modal Comparisons; International Air Cargo Transport; Coastal and Ocean transportation, Characteristics of shipping transport- Types of Ships

Module II:

Containerization: Genesis, Concept, Classification, Benefits, and Constraints; Inland Container Depot (ICD): Roles and Functions, CFS, Export Clearance at ICD; CONCOR; ICDs under CONCOR;

Packing and Packaging: Meaning, Functions and Essentials of Packing and Packaging, Packing for Storage- Overseas Shipment Inland-Transportation- Product content Protection, Packaging Types: Primary, Secondary and Tertiary- Requirements of Consumer Packaging, Channel Member Packaging and Transport Packaging - Shrink packaging –Identification codes, bar codes, and electronic data interchange (EDI)- Universal Product Code- GS1 Standards- package labels- Symbols used on packages and labels.

Module III:

Special Aspects of Export logistics: Picking, Packing, Vessel Booking [Less-than Container Load(LCL) / Full Container Load (FCL)], Customs, Documentation, Shipment, Delivery to distribution centres, distributors and lastly the retail outlets- Import Logistics: Documents Collection- Valuing- Bonded Warehousing, Customs Formalities- Clearing, Distribution to Units.

Module IV:

Basic concepts- Digital Supply Chain Technologies: Artificial Intelligence and Machine Learning in Supply Chain; Blockchain Technology; IoT and Real-time visibility; Case studies on companies implementing AI and blockchain (Amazon, Walmart, Maersk)

Course Outcome:

CO1: Explain core concepts and interrelationships in logistics, supply chain management, transportation, and warehousing.

CO2: Apply containerization, packaging, and documentation techniques to real-world import–export logistics scenarios.

CO3: Evaluate transportation modes, digital tools, and warehousing systems for operational effectiveness and compliance.

CO4: Design a digitally integrated supply chain model incorporating.

Books:

Bowersox, Closs, Cooper, Supply Chain Logistics Management, McGraw Hill.

Burt, Dobbler, Starling, World Class Supply Management, TMH.

Donald J Bowersox, David J Closs, Logistical Management, TMH