

PFT6J001 APPAREL PRODUCTION, PLANNING, CONTROLLING AND SCHEDULING (4-0-0)

Module-I (14 hours)

Introduction to production, Operations, Concept of production, Productivity components of production, Different production systems (customized, divisional, batch. Progressive bundle, line, Modular production system, unit production system & mass customization)
Definition, Objectives and functions of Production planning, control, loading and scheduling, organization of various departments in apparel industry. Development of MIS for production.

Module-II (15 hours)

Introduction to plant layout, Criteria for evaluation, types of layout, determining minimum space requirement, calculation grid, plant size location, location analysis, basic production layout
Production planning orders preparation, material resource planning and Material management Co-ordination of activities in a garment manufacturing unit: Layering & marker planning, Cutting room planning, planning of sewing room in clothing production.

Module-III (11hours)

Introduction to supply chain management, evolution of supply chain management, push - pull strategy, supply chain modeling approaches
Quick response in apparel manufacturing, Concept of lean manufacturing, Supply Chain Practices - 5S lean, Kanban, Kaizen, JIT, ERP, and MRP

Reference Books:

1. Introduction to clothing production management: A.J. Chutter
2. Production management in apparel industry: Rajesh Bheda
3. Plant layout & materials handling- Apple J M- Ronald Press
4. Motion and time study- Barnes Ralph- John Wiley & Sons