

Operations Planning & Control
Semester-IV

- 1 Introduction to Control:
Concept & Objectives
Organization
Functional deliverables & Performance Parameters
- 2 Order Preparation:
Considerations for Order Preparation
Work Orders
Subsidiary Orders
- 3 Resource Requirement Planning:
Influencing factors & considerations
Components for Material/Resource Requirement Planning (BoM, MPS etc.)
Techniques for Resource Planning
- 4 Process Planning:
Influencing factors & considerations
Components for Process Planning
Process Planning for different situations
- 5 Operations/Production Planning:
Capacity considerations
Scheduling
Techniques for Operations/Production Scheduling
- 6 Dispatch/Outbound Logistics:
Functional considerations & Performance Parameters
Dispatching Process
Outbound Logistics under different situations
- 7 Operations Planning & Control Tools:
Integrated Systems: E.R.P
Inventory management
Influence of JIT philosophy
- 8 Advanced & Contemporary Systems:
Flexible Manufacturing Systems
Cellular Manufacturing
Computer Aided Operations
- 9 Service Orientation:
Control without Inventory buffer
Employee involvement
Skills & Knowledge
- 10 Case Studies & Problems