(10) Operation Management

Unit I

Production / Operations Management - Meaning - Importance-historical contributions systems View of OM- Functions Of OM- Efficiency and effectiveness- Types Of Production Systems.

UNIT II

Forecasting-Need and Importance, Qualitative and Quantitative methods of forecasting.

Unit III

Production Planning and control - meaning - functions-aggregate planning - master production schedule(MPS) - Material Requirement Planning(MRP) - BOM - Capacity Requirement planning (CRP)- Techniques - Problems in MRP and CRP, - an introduction to MRPII and ERP - Facilities Planning-Work system Design-Managing Information for Production system-Scheduling and Sequencing.

UNIT IV

Materials Management- Functions -Dependent and Independent Demand System- material planning and budgeting - Value Analysis-Purchase functions and procedure inventory control types of inventory safety stock-Order point service level inventory control systems perpetual - periodic - JIT - KANBAN

UNIT V

Total quality Management concept - Statistical Quality control for Acceptance Sampling and Process Control Concept of O.C.C. Curve - Concept of Type 1 and Type II error Quality movement Quality circles - ISO Quality certifications and types Quality Assurance Sex Sigma Concept.

UNIT VI

Emerging Issues in Planning /Operations Management: Total Productive Mairmenance, Advanced manufacturing system, Computers in planning /operations management.