

SYLLABUS

PRODUCTION AND OPERATIONS MANAGEMENT

Objectives: The objective of this course is to enable the students to understand the concepts of production and operations management of an industrial undertaking.

Unit-I

Introduction of Production and Operational Management: Meaning, Objectives and Scope. Strategic Planning and Demand Forecasting. Production Process and Analysis. Capacity Planning and Management. New Product/ Service Design and Development. Facility Location. Facility Layout. Production Planning and Control Techniques- Sequencing (Processing in Job through Two Machines) and Network Analysis - PERT/ CPM (including Crashing).

Unit-II

Work Measurement and Work Study: Methods, Analysis and various Charts, Time Study and Principles of Motion Economy. Purchase Management. Inventory Management Fundamentals : Economic Order Quantity, Quantity Discount, Reorder Level, Lead Time, Safety Stock, JIT. Supply Chain Management: Concept & Components of Supply Chain, Activities in Supply Chain Management, Logistics Management.