

# **Veer Narmad South Gujarat University, Surat**

## **Rectified Syllabus for Paper : Production Management I**

### **S.Y.BBA SEMESTER – III (effective from Jun-2012)**

**Objective :** To expose the students to basic concepts of production management like production, production management, interfacing of production function with other functions (marketing, finance and human resource functions), various production systems, plant lay out, plant location, material handling, production planning & control etc. and the supporting tools & techniques such as Inventory control, Quality control, Work study, Value analysis, Control of waste etc.

**Pedagogic tools :** includes the use of Lectures, Practical examples from day to day applications & industries, Video presentations, home assignments and Industrial visits.(Contents should be covered up in total about 70 sessins/periods)

#### **Contents:**

Chapter 1. : (20 %)

##### Introduction

Definition and concept of the terms : Production, Operations, Production Management, Operations Management, appropriateness of the term “Operations”

Scope of Production Management - applicability to various organizations like trading organization, manufacturing organization, service organization etc.

functional scope / responsibilities of a production manager.

Importance of Production Management.

Interfacing of Production function with other functions (marketing, finance, and human resource functions)

Chapter 2. : (20 %)

##### Plant site/ location and Manufacturing systems

##### Plant location

Concepts of Plant site/ location, Stages of plant site selection,

Factors affecting the selection of plant location

Comparison of Rural (backward) and Urban (developed)Plant location

Methods of selection of plant location

##### Manufacturing systems

Conceptual understanding of manufacturing systems

Continuous manufacturing system (Mass production, Flow type production)

Intermittent manufacturing system (Batch production, Job shop production, Project type production)

Chapter 3. :

(20 %)

Plant lay out and Material handling

Plant lay out

Definition of plant lay out

Factors affecting choice plant lay out

Types of plant lay outs (Process lay out, Product lay out, Fixed position lay out, Cellular manufacturing lay out and Combination lay out)

Material handling

Definition of Material handling

Functions of material handling

Principles of material handling

Factors affecting selection of material handling equipments

Various material handling equipments

Chapter 4. :

(40 %)

Inventory Control

Definition and concept of inventory and inventory control

Objectives of inventory control

Costs associated with inventory control (Order cost, Inventory carrying cost, Shortage cost and others – including the components of each cost)

Selective inventory control i.e. ABC analysis, VED analysis and FSN analysis, ABC vs. VED matrix.

Economic Order Quantity (EOQ) and basic model for EOQ including assumptions, formula derivation & limitations. Basic model with Price discount.

ERL model for EOQ including assumptions, formula derivation a& limitations EOQ model when shortages are allowed; including assumptions, formula derivation & limitations

Concepts of Lead time, Safety stock, Minimum level, Maximum level and Reorder level of inventory

**Note :** Numerical problems should be asked from chapter no 4 only

Reference Books:-

- 1) Operations Management - by Joseph Monks, McGraw Hill
- 2) Operations Management - by Everett Adams, PHI
- 3) Operations Management – by Martinich, PHI
- 4) Production and Operation Management – by K.Ashwathapa, S.Bhatt- Himalaya Publishing House
- 5) Production and Operations Management – by Chari, TMH
- 6) Work Study – ILO
- 7) Production and Operations Management – by Chunawala and Patel- Himalaya Publishing House
- 8) Operations Management – by Krajewski – PHI
- 9) Operation Management – William Stevenson, McGraw Hill