

**ELECTIVE- PRODUCTION & OPERATION MGT.  
PRODUCTION AND OPERATIONS MANAGEMENT**

**Subject Code- POM 1**

*Max. Marks (Ext. Exam)* : 80

**Min. Pass Marks** : 32

**OBJECTIVES :**

The Course is designed to acquaint the students with decision making in : Planning, scheduling and control of Production and Operation functions in both manufacturing and services, Productivity improvement in operations through layout engineering and quality management etc. Effective and efficient flow, replenishment and control of materials with reference to both manufacturing and services organizations.

**COURSE CONTENTS :**

- Unit – I Nature and Scope of Production and Operations Management; Facility Location; Types of Manufacturing Systems & Layouts; Layout Planning and Analysis;
- Unit – II Material Handling-Principles-Equipments. Line Balancing-Problems; Operations decisions-Production Planning and Control in Mass Production, in Batch/ Job Order Manufacturing;
- Unit – III Capacity Planning –Models; Processplanning, Aggregate Planning Scheduling, Work Study, Method Study, Work Measurement, Work Sampling;
- Unit – IV An Overview of Material Management, Material Planning and Inventory Control; Purchase and Store Management.
- Unit – V Industrial Safety; Total Quality Management including Modern Production Management practices - Just in Time (JIT), KANBAN, 5-S, Kaizen, Total Productive Maintenance (TPM), and 3-M (Muri, Mura, Muda).

**SCHEME OF EXAMINATION:**

Total Marks : (Internal 20, External 80) = 100 marks

**PATTERN FOR EXTERNAL EVALUATION:**

Sec. A: (Short Answers)	4 out of 8	4 x 8 = 32 Marks.
Sec. B: (Essay type & case)	3 out of 5	3 x 16 = 48 Marks.

**SUGGESTED READINGS :**

1. Adam, E & Ebert, R.J. 'Production and Operations Management', 6<sup>th</sup> ed. New Delhi, Prentice Hall of India, 1995.
2. Chary, S.N. 'Production and Operations Management', New Delhi, Tata McGraw Hill, 1989.
3. Moore, FG and Hendrick, T.E., 'Production/ Operations Management', Himalaya Publication.
4. Chunawalla, 'Production and Operations Management', Dr. K. Aswathappa, 'Production Management', Himalaya Publication.
5. Buffa, E.S., 'Modern Production Management', New York, John Wily, 1987.