

Management Science

Unit I

Introduction to Management: Concept –nature and importance of Management – Functions of Management – Evaluation of Management thought- Theories of Motivation – Decision making process-Designing organization structure- Principles of organization - Types of organization structure

Unit II

Operations Management: Principles and Types of Management – Work study- Statistical Quality Control- Control charts (P-chart, R-chart, and Cchart) Simple problems- Material Management: Need for Inventory control- EOQ, ABC analysis (simple problems) and Types of ABC analysis (HML, SDE, VED, and FSN analysis)

Unit III

Functional Management: Concept of HRM, HRD and PMIR- Functions of HR Manager- Wage payment plans(Simple Problems) – Job Evaluation and Merit Rating - Marketing Management- Functions of Marketing – Marketing strategies based on product Life Cycle, Channels of distributions.

Unit IV

Project Management: (PERT/CPM): Development of Network – Difference between PERT and CPM Identifying Critical Path- Probability- Project Crashing (Simple Problems)

Unit V

Strategic Management: Vision, Mission, Goals, Strategy – Elements of Corporate Planning Process – Environmental Scanning – SWOT analysis- Steps in Strategy Formulation and Implementation, Generic Strategy alternatives

Unit VI

Contemporary Management Practice: Basic concepts of MIS, MRP, Just-in-Time(JIT) system, Total Quality Management(TQM), Six sigma and Capability Maturity Model(CMM) Levies, Supply Chain Management , Enterprise Resource Planning (ERP), Business Process outsourcing (BPO), Business process Re-engineering and Bench Marking, Balanced Score Card.

Text Books

1. Dr. P. Vijaya Kumar & Dr. N. Appa Rao, '*Management Science*' Cengage, Delhi, 2012.
2. Dr. A. R. Aryasri, '*Management Science*' TMH 2011.

References

1. Koontz & Weihrich: '*Essentials of management*' TMH 2011
2. Seth & Rastogi: '*Global Management Systems*', Cengage learning , Delhi, 2011
3. Robbins: '*Organizational Behaviour*', Pearson publications, 2011
4. Kanishka Bedi: '*Production & Operations Management*', Oxford

Publications, 2011

5. Philip Kotler & Armstrong: Principles of Marketing, Pearson publications

6. Biswajit Patnaik: Human Resource Management, PHI, 2011

7. Hitt and Vijaya Kumar: Strategic Management, Cengage learning

Objective: To familiarize with the process of management and to provide basic insights into select contemporary management practices.

Codes/ Tables: Normal Distribution Function Tables need to be permitted into the examination Halls