

T.E.(Electronics & Telecommunications)

304190: INDUSTRIAL MANAGEMENT

Teaching Scheme :

Examination Scheme:

Lectures - 4 hours per week

Theory- 100 marks (3 hrs duration)

Unit – I Basics of Management

1.Introduction, Definition of management, characteristics of management, 2.functions of management - Planning, Organising, 3.Staffing, Directing, Co-ordination, Controlling, 4.Motivating, Communication, Decision Making,5. Principles of management – F.W.Taylor, Henry Fayol, Elton Mayo, 6.Administration and management, Nature of management, levels of management, managerial skills, managerial roles, 7.Forms of Organization- Line , Line – staff etc. Forms of ownerships – Partnership, Proprietorship, Joint stock, Co-operative society, Govt. Sector etc, concept of Globalisation (8 hrs)

Unit – II Strategic Management

8.Military origins of strategy – Evolution - Concept and Characteristics of strategic management –Defining strategy – 9.Mintzberg’s 5P’s of strategy – Corporate, Business and Functional Levels of strategy – 10.Strategic Management Process. 11.Preparing an Environmental Threat and Opportunity Profile (ETOP) – Industry Analysis – 12.Porter’s Five Forces Model of competition.BCG Matrix – 13.GE 9 Cell Model -Balanced Scorecard, Generic Competitive Strategies: Low cost, Differentiation, Focus. (8 hrs)

Unit – III Quality Management

14.Definition of quality, goalpost view of quality, continuous improvement definition of quality, 15.types of quality – quality of design, conformance and performance, 16.phases of

quality management, Juran's and Demings view of quality, 17. Quality Management Assistance Tools: Ishikawa diagram – Pareto Analysis – Pokka Yoke (Mistake Proofing). 18. quality circles, TQM, Kaizen, Five S (5S), Six sigma Quality Management Standards (Introductory aspects only)- 19. The ISO 9001:2000 Quality Management System Standard- The ISO 14001:2004 20. Environmental Management System Standard- ISO 27001:2005 Information Security Management System (8 hrs)

Unit – IV Financial & Project Management

21. Capital Structure, Fixed & working capital, 22. Role of Securities and Exchange Board of India (SEBI), 23. function of money market and capital Market, sources of finance. 24. Introduction to capital budgeting, Techniques of capital budgeting. 25. Break even analysis - assumptions, importance, Cost-Benefit analysis, CVP graph, 26. Project Management, Project network analysis, 27. CPM, PERT and Project crashing and resource Leveling. (8 hrs)

Unit – V - Inventory, Logistics & Supply Chain Management

28. Need of Inventory - Costs associated with Inventory – 29. Types of Inventory- Basic EOQ Model - EOQ with discounts – 30. Classification of materials - ABC Analysis, VED, HML, FSN, GOLF, SOS (Numerical expected on Basic EOQ, EOQ with discounts and ABC), 31. Concept of Logistics-3PL, 4PL, 32. Supply Chain Management, 33. Just In Time(JIT), Kanban. (8 hrs)

Unit – VI - Management Information Systems

34. Concept of data and information, characteristics of information, 35. types of information, Definition of MIS, Need, Purpose and Objectives, 36. Contemporary Approaches to MIS, Components of an information system, Need to study information systems, 37. Classification of information systems, 38. Functional Business systems – sales & marketing, Human resources, accounting, manufacturing etc. 39. Decision-making models, Types of decisions, Decision Support Systems, 40. Introduction to e-commerce, types – B2B, B2C, C2B, C2C etc. 41. Overview of ERP, 42. Business Process Re-engineering. (8 hrs)

Text books:

1. O. P. Khanna, "Industrial Engineering and Management", Dhanpatrai publications Ltd, New Delhi.
2. L.C.Jhamb , Savitri Jhamb , Industrial Management – I , Everest Publishing House .

Reference Books :

1. Dinesh Seth and Subhash C. Rastogi, "Global Management Solutions", Cengage Learning, Second Edition, USA.
2. B. Davis and Margrethe H. Olson, "Management Information Systems", Mc-Graw-Hill International Editions.
3. Azar Kazmi , "Strategic Management & Business Policy ", Tata McGraw Hill, New Delhi
4. Kenneth C. Laudon and Jane P. Laudon, ""Management Information Systems", Eighth Edition, Pearson Education
5. K.Shridhara Bhat, "Materials and Logistics Management", Himalaya Publishing House, Mumbai
6. M.Y. Khan and P. K. Jain, "Financial Management", Tata McGraw Hill, New Delhi
7. Ravi M. Kishore, "Project Management", Tata McGraw Hill, New Delhi