

# Industrial Management(304213)

## Teaching Scheme:

Lectures: 3 Hrs/  
Week

## Examination Scheme:

In Semester Assessment:  
Phase I : 30

End Semester Examination:  
Phase II: 70

## Course Objectives:

- To get awareness about various domains in Industrial Management.
- To understand concept of Quality Management, Financial Management and Project Management.
- To learn Human Resource Management as one of the major tasks in industry.
- To promote Entrepreneurship.

## Course Outcomes:

After successfully completing the course students will be able to

- Get overview of Management Science aspects useful in Industry.
- Get motivation for Entrepreneurship

## Unit I : Basics of Management

6L

Introduction, Definition of management, characteristics of management, functions of management - Planning, Organizing, Staffing, Directing, Co-ordination, Controlling, Motivating, Communication, Decision Making, Principles of management – F.W.Taylor, Henry Fayol, Elton Mayo, Administration and management, Nature of management, levels of management, scientific management, managerial roles, Forms of Organization- Line , Line –staff, committee etc, Distinction between Traditional organization and Modern organization, concept of Globalization

## Unit II : Quality Management

6L

Definition of quality, goalpost view of quality, continuous improvement definition of quality, types of quality – quality of design, conformance and performance, phases of quality management, Juran's and Demings view of quality, Quality Management Assistance Tools: Ishikawa diagram – Pareto Analysis – Pokka Yoke (Mistake Proofing).quality circles, TQM, Kaizen, Five S (5S), Six sigma Quality Management Standards (Introductory aspects only)- The ISO 9001:2008 Quality Management System Standard.

## Unit III : Financial and Project Management

6L

Capital Structure, Fixed & working capital, Role of Securities and Exchange Board of India (SEBI), function of money market and capital Market, sources of finance. Introduction to capital budgeting, Techniques of capital budgeting. Break even analysis - assumptions, importance, Cost-Benefit analysis, CVP graph, Project Management, Planning and execution of IT projects, Project network analysis, CPM, PERT and Project crashing and resource Leveling.

#### **Unit IV : Human Resource Development**

**6L**

Strategic importance HRM; objectives of HRM; challenges to HR professionals; role, Responsibilities and competencies of HR professionals; HR department operations; Human Resource Planning - objectives and process; human resource information system. Talent acquisition; recruitment and selection strategies, career planning and management, training and development, investment in training programme; executive development, Case study on Recent trends in Human Resource Development.

#### **Unit V : Entrepreneurship Development**

**6L**

Concept of entrepreneurship, Identification of business opportunities, Generation of business idea, Business plan, Preparation of business proposal, Sources of finance – government and nongovernment agencies, Types of businesses / ownerships – Partnership, Proprietorship, Private limited company, Public limited company, Joint stock, Co-operative society, Govt. Sector etc, Policies and incentives for small business development, Government policies and incentives, Woman entrepreneurship, Industrial relations, Case study on Small scale industries in India.

#### **Unit VI : Management Information Systems**

**6L**

Concept of data and information, characteristics of information, types of information, Definition of MIS, Need, Purpose and Objectives, Contemporary Approaches to MIS, Components of an information system, Need to study information systems, Information as a commodity, Types of information systems, Functional Business systems – sales & marketing, Human resources, accounting, manufacturing etc. Decision-making models, Types of decisions, Decision Support Systems, Introduction to e-commerce, types – B2B, B2C, C2B, C2C etc. Overview of ERP, Business Process Re-engineering.

#### **Text books**

1. 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. Waman S. Jawadekar, "Management Information Systems", Mc-Graw-Hill Education ( India ) Pvt. Ltd.
2. G. S. Batra , “Development of Entrepreneurship ”, Deep and Deep Publications, New Delhi
3. Kenneth C. Laudon and Jane P. Laudon, “Management Information Systems", Eighth Edition, Pearson Education
4. Ashwathappa, “Human Resource Management”, Mc-Graw-Hill Education ( India ) Pvt. Ltd.
5. M.Y. Khan and P. K. Jain, “Financial Management”, Mc-Graw-Hill Education (India) Pvt. Ltd.
6. Ravi M. Kishore, “Project Management”, Mc-Graw-Hill Education ( India ) Pvt. Ltd.
7. Pravin Kumar, “ Fundamentals of Engineering Economics”, Wiley India