

Chemical Engineering

CHE: 414 – Industrial Management (Elective)

CHE –

Instruction : 4 Periods /Week

End Exam : 3 Hours

Credits:4

Sessional Marks : 40

End Exam Marks: 60

Course Objectives

1. To familiarize the students with the concepts of Management.
2. To relate the concepts of management with industrial organizations.
3. To explain the factors affecting productivity and how productivity can be increased in an Industrial undertaking.

Course Outcomes:

By the end of the course, the student will be able to:	
1.	Understand the concepts of Management
2.	Gain basic understanding of management and to relate the concepts of management with industrial organizations and manage organizations efficiently
3.	Have the basic knowledge of production management and make decisions proficiently
4.	Have the knowledge in maintaining better human relations in the organizations

Syllabus

1) Management: Functions of management – Planning, Organizing, Staffing, Directing Controlling and Coordinating, Levels of management, Role of Manager, Skills of manager, – F.W. Taylor’s scientific management and Henry Fayol’s principles of management.

(CO 1) 10 Periods

2) Organization: Meaning of Organization, Principles of organization, Departmentalization, **Communication:** Importance, purpose and forms of communication. Barriers to communication.

(CO 2) 10 Periods

3) Forms of business organizations: Salient features of Sole proprietorship, Partnership, Joint Stock Company, Private limited company and Public limited company, Government enterprises and Co-operative societies.

(CO 2) 15 Periods

4) Production operations management: Production planning and control, Plant location and factors affecting plant location, Plant layout and types of layout (in brief).

(CO 3) 15 Periods

5) Human Resources Management: Basic functions of human resource management. Manpower planning, Recruitment, Selection, Training and Development, Placement, Compensation and Performance appraisal.

(CO 4) 10 Periods

Text Books

- 1) P.C. Tripathi, P.N.Reddy, ‘Principles of Management’ , Fourth Edition, Tata Mc Graw Hill Companies, New Delhi (2008) **(Units Covered 1,2)**
- 2) A.R. AryaSri, Managerial Economics and Financial Analysis, TMH Publications, new Delhi, (2014) **(Units covered – 3)**
- 3) S.C. Sharma and Banga T. R., Industrial Organization & Engineering Economics, khanna Publications, Delhi-6. (2006) **(Units covered – 4,5)**

Reference Books:

1. O.P. Khanna, ‘Industrial Engineering and Management’, Dhanpat Raj and Sons.