

## INDUSTRIAL MANAGEMENT

### (Mechanical Engineering)

**Course Code: 13HM1103**

<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>4</b>	<b>0</b>	<b>0</b>	<b>3</b>

#### **Course Educational Objectives:**

To familiarize with the process of management and to provide the basic insights in effective and efficient running of an industry using its human and non-human resources in order to achieve its set goals and objectives

#### **Course Outcomes:**

To understand the management processes and evolve management levels for effective decision making

#### **UNIT-I**

**(10 Lectures)**

##### **MANAGEMENT AND ORGANIZATION:**

Definition – meaning and nature of management- Functions of management- Evolution of management thought- Taylor’s Scientific management- Fayol’s Principles of management- Basic concepts related to organization- Departmentation, Delegation and Decentralization, Type of organization structures- authority, responsibility and accountability

#### **UNIT-II**

**(12 Lectures)**

##### **MOTIVATION THEORIES AND LEADERSHIP:**

Definition, Meaning and Types of Motivation – Theories of Motivation- Douglas Mc Gregor Theory X and Theory Y, Mayo’s Hawthorne Experiment- Herzberg two factor theory of motivation, Maslow’s hierarchy of human needs

Leadership: Definition, Meaning, Features and Types of Leadership (Autocratic, Democratic and Laissez Faire )

#### **UNIT-III**

**(12 Lectures)**

##### **PLANT LOCATION & LAYOUT:**

Plant location – Definition, factors affecting the plant location, comparison

of rural and urban sites- methods of selection of plant. Plant layout-definition, objectives, types of production, types of plant layout-various data analyzing forms-travel chart

## UNIT-IV

(12 Lectures)

### WORK STUDY:

Definition- objectives, method study- definition, objectives, steps involved – various types of associated charts- difference between micromotion and memomotion studies. Work measurement- definition, time study, steps involved – equipment, different methods of performance rating- allowances, standard time calculation. Work Sampling- definition and steps involved.

## UNIT-V

(14 Lectures)

### INDUSTRIAL RELATIONS & LABOR WELFARE:

Definition of Industrial dispute – causes of Industrial dispute – (Internal & External) – machinery to solve industrial disputes, grievance management, attendance and leave, labor Act-2003, Factories Act-1948, Social security measures in labor laws. Introduction in social security laws; Payment of gratuity act – 1972, Employees fund & Miscellaneous Provisions Act-1952, Employees State Insurance Act- 1948, workmen’s Compensation Act- 1923

Labor welfare: Meaning- Statutory and Non Statutory Act

### TEXTS BOOKS:

- 1 O P Khanna, “*Industrial Engineering and Management*”, 2<sup>nd</sup> Edition, Dhanpat Rai, 2004.
- 2 Martand Telsang, “*Industrial Engineering and Management*”, 2<sup>nd</sup> Edition, S. Chand & Comapany, 2008.

### REFERENCES:

- 1 Dr. O P Khanna, “*Industrial Engineering and management*” 2<sup>nd</sup> Edition, Dhanpat Rai, 2004.
- 2 Dr. C Nadha Muni Reddy and Dr. K Vijaya Kumar Reddy “*Reliability Engineering & Quality Engineering*”, 1<sup>st</sup> Edition, Galgotia Publications, 2008.

