

## COURSE STRUCTURE OF B. TECH IN COMPUTER SCIENCE & ENGINEERING, HIT

<b>Course Name : Principles of Management</b>					
<b>Course Code: HMTS3201</b>					
<b>Contact hrs per week:</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Total</b>	<b>Credit points</b>
	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>

### Module 1:

**Management:** Definition, nature, purpose and scope of management, Skills and roles of a Manager, functions, principles; Evolution of Management Thought: Taylor Scientific Management, Behavioral Management, Administrative Management, Fayol's Principles of Management, Hawthorne Studies. (4L)

### Module 2:

- a) **Planning:** Types of plans, planning process, Characteristics of planning, Traditional objective setting, Strategic Management, premising and forecasting.
- b) **Organizing:** Organizational design and structure, Coordination, differentiation and integration.
- c) **Staffing:** Human Resource Management and Selection, Performance appraisal and Career strategy, Managing Change.
- d) **Decision-Making:** Process, Simon's model of decision making, creative problem solving, group decision-making.
- e) **Coordinating:** Concepts, issues and techniques.
- f) **Controlling:** Concept, planning-control relationship, process of control, Types of Control, Control Techniques (8L)

### Module 3:

Span of management, centralization and de-centralization Delegation, Authority & power - concept & distinction, Line and staff organizations. (4L)

### Module 4:

**Organization Behaviour:** Motivation, Leadership, Communication, Teams and Team Work. (6L)

### Module 5:

**Management by Objectives (MBO):** Management by exception; Styles of management: (American, Japanese and Indian), McKinsey's 7-S Approach, Self Management. (2L)

### **References:**

1. Harold Koontz & Heinz Weihrich, Essentials of Management, TMH.
2. Stoner, Freeman, Gilbert Jr., Management, PHI.
3. Bhatt & Kumar, Principles of Management, OUP.

<b>Course Name : Circuit Theory</b>					
<b>Course Code: ELEC3001</b>					
<b>Contact hrs per week:</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Total</b>	<b>Credit points</b>
	<b>3</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>4</b>

**Total: 40L**

### **Module-I**

**Network equations:** Formulation of Node & Mesh equations. Loop and node variable analysis. Network Theorems: Thevenin's, Norton's and Superposition theorem applied to circuits containing dependent sources. [10L]

### **Module-II**

**Laplace Transform:** Review of Laplace transform. Properties of Laplace transform. Transform of standard periodic and non periodic waveforms. Circuit elements and their transformed equivalents. Transient and steady state response of RL, RC, LC and RLC with or without stored energy. Concept of natural frequency and damping. Sketching transient response, determination of time domain specifications. [10L]