



# **C. U. SHAH UNIVERSITY – WADHWAN CITY**

## **FACULTY OF TECHNOLOGY AND ENGINEERING DEPARTMENT OF INFORMATION TECHNOLOGY B. TECH. SEMESTER: - III**

**SUBJECT NAME: Enterprise Resource Planning (ERP) SUBJECT CODE: 4TE03ERP1**

### **Teaching & Evaluation Scheme:-**

Subject Code	Subject Name	Teaching Scheme (Hours)				Credits	Evaluation Scheme							
		Th	Tu	Pr	Total		Theory				Practical (Marks)			Total
							Sessional Exam		University Exam		Internal		University	
							Marks	Hours	Marks	Hours	Pr/Viva	TW	Pr	
4TE03ERP1	Enterprise Resource Planning	2	0	2	4	3	30	1.5	70	3.0	30	20	-	150

### **Objectives:**

- To provide basic understanding, structure and functionality of various organization working. It begins with the ERP and Related Technologies, Manufacturing Perspective, Different ERP modules and its benefit. Different Case studies and tools also being discussed.

### **Prerequisites:**

- Basic concepts of management skills and Computer Resources.

### **Course outline:**

Sr. No.	Course Contents	Total Hours
1	<b>Introduction to ERP:</b> Enterprise – An Overview Integrated Management Information, Business Modeling, Integrated Data Model	04
2	<b>ERP and Related Technologies:</b> Business Processing Reengineering(BPR), Data Warehousing, Data Mining, On-line Analytical Processing(OLAP), Supply Chain Management (SCM), Customer Relationship Management(CRM), MIS - Management Information System, DSS - Decision Support System, EIS - Executive Information System.	06
3	<b>ERP Manufacturing Perspective:</b> MRP - Material Requirement Planning, BOM - Bill Of Material, MRP - Manufacturing Resource Planning, DRP - Distributed Requirement Planning, PDM - Product Data Management	04

4	<b>ERP Modules:</b> Finance, Plant Maintenance, Quality Management, Materials Management	04
5	<b>Benefits of ERP:</b> Reduction of Lead-Time, On-time Shipment, Reduction in Cycle Time, Improved resource Utilization, Better Customer Satisfaction, Improved Supplier Performance, Increased Flexibility, Reduced Quality Costs, Improved Information Accuracy and Design-making Capability	07
6	<b>ERP Implementation Lifecycle:</b> Pre-evaluation Screening, Package Evaluation, Project Planning Phase, Gap Analysis, Reengineering, Configuration, Implementation Team Training, Testing, Going Live, End-user Training, Post-implementation (Maintenance mode)	07

#### **Learning Outcomes:**

1. Students are able to know different modules of ERP and its relevant tools.
2. Become well familiar with ERP Implementation Life cycle.

#### **Books Recommended:**

1. Enterprise Resource Planning by **Alexis Leon**, Tata McGraw Hill, 2<sup>ND</sup> Edition, 2008.
2. Enterprise Resource Planning Demystified by **Alexis Leon**, Tata McGraw Hill, 2<sup>ND</sup> Edition, 2008.
3. Enterprise Resource Planning by **Ravi Shankar & S. Jaiswal**, Galgotia, 1999.