

**CORE COURSE – XIV – ENTERPRISE RESOURCE PLANNING**

**Credit Allotted: 4**

**Max. Marks: 75**

**UNIT – I**

Introduction to ERP – Conceptual model of ERP – Evolution of ERP – Structure of ERP - Reasons for Growth – Advantages of ERP – Enterprise: An overview. ERP and Related Technologies: Business Process Re-engineering – Management Information System – Decision Support System – Executive Information system – Data Warehousing – Data Mining – OLAP – Supply Chain Management.

**UNIT- II**

ERP – Manufacturing Perspective – Materials Requirement Planning – Distribution Requirements Planning – JIT – CAD/CAM – Product Data Management – ERP Modules: - Plant Maintenance – Quality Management – Materials Management.

**UNIT - III**

Benefits of ERP: Reduction of Lead Time – Reduction of Cycle Time – Improved Resource Utilization – Reduced Quality Costs – Increased Flexibility – Improved Information accuracy and Decision making capability.

**UNIT - IV**

ERP Implementation Lifecycle: Introduction – Pre-evaluation screening – Project Planning – Gap Analysis – Reengineering – Configuration – Implementation – Testing – Training – Maintenance. Vendors, Consultants and Users: Inhouse Implementation-Pros and Cons – Vendors – Consultants – Endusers.

**UNIT - V**

Future Directions in ERP: New Markets – New Channels – Faster Implementation Methodologies – Business Models – Application Platforms – new business segments – Web-enabling – Market Snapshot.

**BOOKS FOR REFERENCE:**

1. Alexis Leon , “Enterprise Resource Planning “,Tata McGraw – Hill Publishing Company Ltd.
2. Rahul V. Altekar , “Enterprisewide Resource planning-Theory and practice”, Prentice Hall of India Pvt Ltd.
3. Vinod kumar garg and N.K.Venkitakrishnan , ” Enterprisewide Resource Prentice Hall of India Pvt Ltd.
4. Dr.Subodh Kesharwani , “ ERP systems – Application, Experiences & Upsurg “ , Pragati prakathan publication – Meerut.
- 5.Balasubramanian, Enterprise Resource Planning