

## SEMESTER III

### ENTERPRISE INFORMATION SYSTEM

<b>CREDITS:</b>	<b>3</b>
-----------------	----------

#### OBJECTIVE:

- To understand the importance of information management and enterprise resource planning in business
- To know about the recent information systems and enterprise resource planning technologies.

#### **UNIT I - SYSTEM ANALYSIS AND DESIGN** **9**

Data, Information, Information System, evolution, types based on functions and hierarchy, Enterprise and functional information systems, System development methodologies, Systems Analysis and Design, Data flow Diagram (DFD), Decision table, Entity Relationship (ER), Object Oriented Analysis and Design(OOAD), UML diagram.

#### **UNIT II - DATABASE MANAGEMENT SYSTEMS** **9**

DBMS – types and evolution, RDBMS, OODBMS, RODBMS, Data warehousing – Star, Snowflake, Fact Constellation, open source database systems, Scripting Language, JDBC, ODBC, Data Mart, Data mining.

#### **UNIT III - INTEGRATED SYSTEMS, SECURITY AND CONTROL** **9**

Knowledge based decision support systems, Integrating social media and mobile technologies in Information system, Security, IS Vulnerability, Disaster Management, Computer Crimes, Securing the Web.

#### **UNIT IV - ENTERPRISE SYSTEMS** **9**

Overview of enterprise systems – Evolution - Risks and benefits - Fundamental technology - warehouse management, Overview of ERP software solutions, BPR, Project management, Functional modules-Organisational data, master data and document flow.

#### **UNIT V - ERP IMPLEMENTATION** **9**

Planning Evaluation and selection of ERP systems - Implementation life cycle - ERP implementation, Methodology and Frame work- Training – Data Migration. People Organization in implementation-Consultants, Vendors and Employees, Maintenance of ERP- Organizational and Industrial impact; Success and Failure factors of ERP Implementation.

**TOTAL: 45 PERIODS**

#### OUTCOME:

- Gains knowledge on effective applications of information systems and enterprise resource planning in business.

**REFERENCES:**

1. Alexis Leon, ERP demystified, second Edition Tata McGraw-Hill, 2008.
2. Simha R. Magal , Jeffrey Word, Integrated Business processes with ERP systems, John Wiley & Sons, 2012.
3. Jagan Nathan Vaman, ERP in Practice, Tata McGraw-Hill, 2008
4. Alexis Leon, Enterprise Resource Planning, second edition, Tata McGraw-Hill, 2008.
5. Mahadeo Jaiswal and Ganesh Vanapalli, ERP Macmillan India, 2009
6. Vinod Kumar Grag and N.K. Venkitakrishnan, ERP- Concepts and Practice, Prentice Hall of India, 2006.
7. Summer, ERP, Pearson Education, 2008.