3IT84: ENTERPRISE RESOURCE PLANNING
CREDITS - 3 (LTP: 3,0,0)

Course Objective:
To understand the business process, project management life cycle and emerging trends of ERP.

Teaching and Assessment Scheme:

Teaching Scheme (Hours per Week)			Credits	Assessment Scheme				Total Marks
				Theory Marks		Practical Marks		
L	T	P	C	ESE	CE	ESE	CE	
3	0	0	3	60	40	-	-	100

Course Contents:

Unit No.	Topics	Teaching Hours
1	**ERP and Related Technologies:** Introduction, Related Technologies, Business Intelligence, E-Commerce and E-Business, Business Process Reengineering, Data Warehousing, Data Mining, OLAP, Product life Cycle management, Supply chain management, Customer relationship management, Management information system, Decision support system, Executive information system.	8
2	**ERP Manufacturing Perspective :** MRP - Material Requirement Planning, BOM - Bill Of Material, MRP - Manufacturing Resource Planning, DRP - Distributed Requirement Planning, PDM - Product Data Management.	5
3	**ERP Implementation:** Implementation Challenges, Strategies, Life Cycle, Pre-implementation Tasks, Requirements Definition, Methodologies, Package selection, Project Teams, Process Definitions, Vendors and Consultants, Data Migration, Project management, Post Implementation Activities.	10
4	**ERP in Action and Business Modules:** Operation and Maintenance, Performance, Maximizing the ERP System. **Business Modules:** Finance, Manufacturing, Human Resources, Plant maintenance, Materials Management, Quality management, Marketing, Sales, Distribution and service.	10
5	**ERP Case studies and ERP Tools:** E-Commerce to E-business, E-Business structural transformation, Flexible Business Design, Customer Experience, Create the new techno enterprise, New generation e-business leaders, memo to CEO, Empower your customer, Integrate Sales and Service, Integrated Enterprise applications. **Introduction to ERP Tools:** JD Edwards-Enterprise One, Microsoft Dynamics-CRM Module.	8
6	**Emerging Trends of ERP:** Extended ERP systems and ERP add-ons, Business analytics, Enterprise architecture planning, ERP usage in Real world, ERP implementation, Future of ERP applications.	4

Unit No.	Topics	Teaching Hours
	Trends in ERP Systems: Web enabled, wireless technologies, cloud computing.	
	Total	**45**

List of References:

1. Alexis Leon, *"ERP demystified"*, Third Edition,Tata McGraw-Hill, 2014
2. Alexis Leon, *"Enterprise Resource Planning",* Third Edition,Tata McGraw Hill,2012
3. Ravi Shankar & S. Jaiswal, *"Enterprise Resource Planning"*, Galgotia.
4. Annetta Clewwto and Dane Franklin, *"Guide to Planning ERP Application"*, McGRaw-Hill

Course Outcomes (COs):

At the end of this course students will be able to …

1. Analyze the life cycle of ERP and its related technologies.
2. Identify implementation strategy used for ERP.
3. Explain the performance and maintenance operations of ERP.
4. Examine the working and design principles of various business modules of ERP.
5. Understand the basic tools of ERP.
6. Apply different emerging technologies for implementation of ERP.