

Subject Code : 1ET2030401	Subject Title: Enterprise Resource Planning
Pre-requisite :	

Course Objective:

To introduce the student to the rationale for acquiring and implementing ERP systems, selection of ERP software, and integration of processes and transactions in the ERP system. To enable the student to understand the challenges associated with the successful. To develop the student's organizational and analytical skills using business cases studies, articles and working in teams. To learn principles of leading very large change initiatives by focusing on the rational and emotional aspects of organizational transformation. Enable the student to develop leadership thinking, tolerance of ambiguity, communication and interpersonal skills, creativity and general business instincts.

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				
Lecture	Tutorial	Practical	Credit	Theory		Practical		Total
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
3	-	2	5	60	40	30	20	150

Subject Contents			
Sr. No	Topic	Total Hours	Weight (%)
1	Introduction to ERP Evolution of ERP	4	5
	What is ERP? Reasons for the Growth of ERP; Scenario and Justification of ERP in India; Evaluation of ERP; Various Modules of ERP; Advantage of ERP		
2	An Overview of Enterprise	5	5
	An Overview of Enterprise; Integrated Management Information; Business Modelling; ERP for Small Business; ERP for Make to Order Companies; Business Process Mapping for ERP Module Design; Hardware Environment and its Selection for ERP Implementation.		
3	ERP and Related Technologies	5	25
	ERP and Related Technologies; Business Process Reengineering (BPR); Management Information System (MIS); Executive Information System (EIS); Decision support System (DSS); Supply Chain Management (SCM).		
4	Various ERP System	5	25
	ERP system: Introduction; Finance, Plant Maintenance, Quality Management, Materials Management.		
5	ERP Marketplace	4	20
	ERP Market: Introduction, SAP AG, Baan Company, Oracle Corporation, People Soft, JD Edwards World Solutions Company, System Software Associates, Inc. (SSA); QAD; A Comparative Assessment and Selection of ERP Packages and Modules.		
6	ERP Implementation Lifecycle	6	15
	ERP Implementation Lifecycle: Issues in Implementing ERP Packages; 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). Selection of ERP vendors Vendors; Consultants and Users; In-House Implementation - Pros and Cons; Vendors; Consultants; End User.		
7	Future Directions in ERP	4	5
	Future Directions in ERP; New Markets; New Channels; Faster Implementation Methodologies; Business Modules and BAPIs; Convergence on Windows NT; Application Platform; New Business Segments; More Features; Web Enabling; Market Snapshot. ERP Scope: E-Procurement; E-Logistics; Internet Auctions; E-markets; Electronic Business Process Optimization; Business Objects in SCM; E commerce.		

Review Presentation: The student is expected to refer at least two peer reviewed journal papers related to this domain/subject. The student is expected to identify issues/challenges and emerging trends in the domain/subject. Student is supposed to explore various video lectures (E.g. NPTEL) available in the domain/subject. Student is required to make a review-presentation on the work carried out for the same.

Recommended sites for journal papers are (1) dl.acm.org (2) springer.com (3) sciencedirect.com (4) elsevier.com (5) ieeexplore.ieee.org (6) scholar.google.co.in (7) scopus.com or others of similar repute.

List of References:

- ERP, by Alexis Leon Publisher : Tata McGraw Hill
- The Impact of Enterprise Systems on Corporate Performance: A study of ERP, SCM, and CRM System Implementations [An article from: Journal of Operations Management] by K.B. Hendricks; V.R. Singhal; and J.K. Stratman, Publisher: Elsevier
- ERP and Supply Chain Management by Christian N. Madu, Publisher: CHI
- Implementing SAP ERP Sales & Distribution by Glynn C. Williams, Publisher McGraw-Hill

List of Experiments:

Note: The experiment list provided beneath is for reference only. The course teacher may change/formulate it as per his/her methodology and requirement.

Practical List

1. Study of Various ERP system running in the market.
2. Study of Microsoft Navision ERP Platform
3. Study of Salesforce CRM System.
4. Creating blueprint for SAP for any organization.