Amrita School of Business, Coimbatore
Amrita Vishwa Vidyapeetham

Trimester V

Enteprise Resource Planning (ERP)

Course Facilitator : Shri Krishnan J

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Course contributes mostly to:

Employability/ *Entrepreneurship/* **Skill Development**

/ Value-add

Introduction

Integration of information/processes is one of the biggest challenges faced by organizations. This course introduces students to enterprise systems (also called ERP systems) and provides an overview of the managerial and technical issues in planning, designing,implementing, and extending enterprise systems and technologies. The focus of the course is managerial with some technical content and hands-on exercises using ERP software from the industry-leader SAP.

Objectives

Upon completion of this course, students should be able to

1. Understand and appreciate the challenges of Automation and integration.
2. Able to understand issues of ERP architecture, design, development, implementation, and project management.
3. An appreciation of concepts, technologies, and trends in ERP systems including forward, backward, and upward integration of the enterprise using supply chain management and customer relationship management.
4. Get hands-on experience with enterprise software from SAP.
5. Evolution of ERP and Integrating with Emerging technologies and ideas like Industry 4.0, IoT, Design Thinking etc.
6. Best practices and Effective Management concepts implemented in ERP solutions like Kanban Replenishments, Balanced Score card etc.

Pedagogy

Presentations on ERP Project Management

Case study discussions on successful and unsuccessful ERP Implementations

Select examples of SAP Implementation blueprints

The course requires extensive hands-on practices. Working on SAP GBI exercises gives the student hands-on exposure which supplements the Instructor led lecture and demo sessions.

Assignment on Emerging topics in ERP

Prerequisites

None. No Programming skills are required however Working with SAP may require some technical skills.

Alignment of course objectives (CO) with learning goals (LG) of Assurance of Learning

The course objectives mapped to The Five Learning Goals derived from the mission statement of ASB

LG>> CO	Critical and integrative Thinking	Effective written and oral communication	Societal and Environmental Awareness	Ethical Reasoning	Leadership
CO1	3	0	3	3	3
CO2	0	3	2	2	3
CO3	0	2	3	0	2
CO4	1	3	0	0	0
CO5	2	2	3	1	2
CO6	2	2	3	0	3

Key: 3 – Highly relevant; 2 –Moderately relevant; 1 – Low relevance; 0- No relevance

Course Objectives mapped with Bloom's Taxonomy

CO >>> Bloom's Levels of Learning	CO 1	CO 2	CO 3	CO 4	CO 5	CO 6
Creating				X		
Evaluating	X	X	X		X	X
Analyzing		X	X		X	X
Applying				X		X
Understanding	X	X	X		X	X
Remembering		X	X	X	X	X

Required Reading
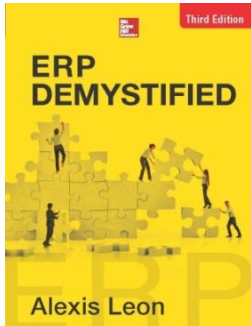
Alexis Leon
ERP Demystified, Third Edition
Mc Graw Hill Education,2014
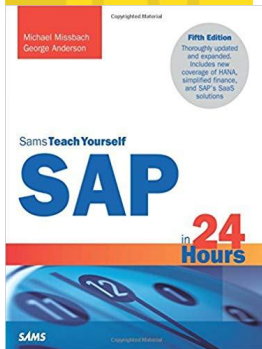
Anderson George W.
Sams Teach Yourself SAP, 5th edition
 Pearson education, ©2011
ISBN-13: 978-0672337406
ISBN-10: 0672337401

Performance Evaluation

Individual Evaluation

Participation	5%
Mid-Term Examination	15%
End-Term Examination	30%
Quizzes	15%
Total	**65%**

Group Evaluation

Case Study Discussion	10%
SAP Exercises and Case studies	10%
Assignment on Emerging trends and Best practices	15%
Total	**35%**

Session Plan

Session 1: Introduction	Students are introduced to the Syllabus, the Pedagogy and the Evaluation Scheme. Project Groups are formed.
Session 2 Introduction to Enterprise Systems for Management	Information Systems in Organizations, ERP systems, ERP Implementation, People and Organization, ERP Vendors
Session 3: Systems Integration	Functional Silos, Business Process and Silos, Evolution of IS in Organizations, Systems Integration, ERP and Systems Integration
Session 4: Enterprise Systems Architecture	ERP Modules, ERP Architecture, Types of ERP Architectures
Session 5: Development Life Cycle	Systems Development Life cycle, ERP Implementation Life cycle, Implications for Management
Session 6: Implementation Strategies	ERP components, Third Party Products, Database Requirements, ERP Apporaches, ERP Implementation Examples
Session 7: Software and Vendor Selection	Vendor Research, Matching User Requirements to Features, Requests for Bids, Vendor Analysis and Elimination, Contract Management and License Agreements, Implications for Management
Session 8: Operations and Post Implementation	Go-Live Readiness, ERP Training, Stabilization, Post Production Support, Knowledge Transfer
Session 9: Program and Project Management	Project Team, Module Experts and SMEs, Project Leadership, CSFs, Managing Scope creep
Session 10: Organizational Change and BPR	Reason for change, Organizational Commitment, Business Process Change, Project Organization, Project Roles and Responsibilities
Session 11: Global, Ethics and Security Management	Outsourcing, Ethics, Legal Issues, Security
Session 12: SCM and CRM	Supply chain management, E-business and Supply Chain Management, Integration, CRM concepts, Customer Relationship Process, CRM Technology, CRM Life cycle
Sessions 13 to 24: SAP GBI Hands-on Practices	