Course Name   : Enterprise Resource Planning

Course Code   : 17MB52C6

L-T-P structure   : 3 0 0

Course Credits   : 3

Course Coordinator   : Dr. P.V. Vijay Kumar Reddy

Course Instructor   : Dr. P.V. Vijay Kumar Reddy (Sec A, B and C)
Course Teaching Associates : Nil

Course Objective:

1. The basic purpose of this course is to provide students with a broad understanding and theoretical knowledge of Enterprise Resource Planning technology.

2. To prepare student to appraise the need for functional integration and ERP technology.

3. To formulate and redesign the business process through business process reengineering and selecting right application and implementation method.

Course Rationale: The purpose of learning this course on Enterprise Resource Planning (ERP), is to provide clear understanding on integration of all the business processes of an organization through Enterprise Resource Planning (ERP) software. By the completion of the course in the stipulated time, a real-time ERP understanding will be given to the students..

Course Outcomes (CO):

CO No:	CO	PO	BTL
1.	Analyze concepts of Business Functions, Business Model and Business Processes.	A	4
2.	Evaluate various benefits and risks in the Implementation of ERP	B	5
3.	Asses the need for ERP applications in a business function and recommend a right package..	B	4
4.	Create implementation Methodology while identifying the resources for the implementation process	G	6

COURSE OUTCOME INDICATORS:

CO No.	COI-1	COI-2	COI-3
1	Understand the concept of ERP and its role in business.	Relate integrated Information Systems and Business Processes.	Analyze BPR efficiency
2	Understand the benefits of ERP	Classifying Qualitative and Quantitative benefits of ERP.	Evaluating Qualitative and Quantitative benefits of ERP.
3	Asses need for ERP Technology in Business.	Evaluating Risks involved in ERP Decisions	Recommend Package selection.
4	Understand ERP Implementation Overview and Legacy Systems	Classify Implementation Methodologies Formulate implementation Process	Formulate implementation Process and implementation Teams

SYLLABUS (As approved by BoS):

ERP-Introduction; Advantages; ERP and Business – value creation; Integrated Information Management; Enterprise and ERP, Business modeling; Integrated data model; To ERP or not to ERP – Strategic Options; Benefits of ERP: Quantifiable, Intangible, Risks: People, process, Technology, Implementation, Operational and Managerial risks. Introduction to ERP related technologies; Functional modules of ERP software; Implementation of ERP: Technological, Operational Business reasons, Life cycle; Implementation methodologies, transition strategies; People involved in implementation; Success and failure in implementation – factors. Operation and Maintenance of an ERP system.

BoS Approved Text books:
1. Alexis Leon (2008)- Enterprise Resource Planning, 2nd Edition, Tata Mcgraw Hill publishing company.
2. Vaman Jagannathan (2008) - ERP in practice, Tata Mcgraw Hill publishing company

BoS Approved Reference Books:
1. Daniel, E.O' Leary (2002), Enterprise Resource Planning Systems, Cambridge University Press.

2. Ellen Monk and Bret Wagner (2009), Concepts in Enterprise Resource Planning, 3rd edition, Cengage Learning.

Other Books, References: (As recommended for reference by the course team, if any): NIL

Deviations (if any) from B o S approved syllabus and the topics planned: NIL

COURSE DELIVERY PLAN:

Sess. No.	CO	COI	Topic (s)	Teaching-Learning Methods	Evaluation Components
1.	1	1	Introduction to ERP	Lecture - Q&A	Test-1 & Sem End Exam
2.	1	1	ERP and Business	Lecture - Q&A	Test-1 & Sem End Exam
3.	1	2	Business modeling & IS	Lecture - Q&A	Test-1 & Sem End Exam
4.	1	3	Business Processes Integrated Data Modeling	Lecture - Q&A	Test-1 & Sem End Exam
5.	2	1	To ERP or Not	Lecture - Q&A	Test-1, Case & Sem End Exam
6.	2	2	Classifying Benefits of ERP	Lecture - Q&A	Test-1 & Sem End Exam
7.	2	3	Evaluating Benefits of ERP	Lecture - Quiz	Test-1 & Sem End Exam
8.	3	1	Need for ERP Technology	Video Lecture - Q&A	Test-2, Case Study, Sem End Exam
9.	3	2	Risks Involved	Lecture - Q&A	Test-2 & Sem End Exam
10.	3	3	ERP related technologies	Lecture - Q&A	Test-2 & Sem End Exam
11.	3	3	Functional Modules	Lecture - Q&A	Test-2 & Sem End Exam
12.	3	3	Functional Modules	Lecture - Quiz	Test-2, Case Study, Sem End Exam
13.	3	3	Strategic Fit	Lecture - Q&A	Test-2 & Sem End Exam
14.	3	3	Package Selection	Lecture - Q&A	Test-2 & Sem End Exam
15.	4	1	Implementation of ERP	Lecture - Q&A	Test-2 & Sem End Exam
16.	4	1	Legacy to ERP Transition strategies	Lecture - Q&A	Test-2 & Sem End Exam
17.	4	2	Implementation Methodologies	Lecture - Q&A	Test-2 & Sem End Exam
18.	4	3	Organization of the Implementation Team	Lecture - Q&A	Test-3 & Sem End Exam
19.	4	3	Organization of the Implementation Team	Lecture - Quiz	Test-3 & Sem End Exam
20.	4	3	Success and Failure in implementation – Factors	Video Lecture	Sem End Exam
21.	4	3	Success and Failure in implementation – Factors	Lecture - Q&A	Sem End Exam
22.	4	3	Operation and Maintenance of an ERP system	Lecture - Q&A	Sem End Exam

23	1	1	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
24	1	1	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
25	1	1	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
26	1	2	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
27	1	2	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
28	1	2	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
29	2	1	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
30	2	1	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
31	2	1	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
32	2	2	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
33	2	2	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
34	2	2	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
35	3	1	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
36	3	1	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
37	3	2	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
38	3	2	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
39	3	3	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
40	4	1	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
41	4	2	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
42	4	3	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
43	4	3	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
44	4	3	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study
45	4	3	SAP ERP Foundation program	SAP Workshop	Active Learning - Case Study

Session wise Teaching – Learning Plan
Session Number: 1
Session Outcome: Student able to understand business functions, business processes and ERP

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction	2	Lecture
25	ERP-Introduction, Business functions and processes, Integrated Management Information		Lecture
15	Q & A		Interaction
05	Revision		Interaction

Session Number: 2
Session Outcome: Student able to Understand Important role of ERP in business, value creation by ERP

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction	2	Lecture
25	Importance of ERP to a Company, Value Creation by ERP, Enterprise and ERP		Lecture
15	Q & A		Interaction
05	Revision		Interaction

Session Number: 3
Session Outcome: Student able to understand Business modelling and integrated Model

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction	2	Lecture
20	Business models and integrated data model		Lecture
20	Q & A		Interaction

05	Revision		Interaction

Session Number: 4

Session Outcome: Student able to Understand different aspects of integrated Model

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction		Lecture
20	Integrated Model	2	Lecture
20	Q & A		Interaction
05	Revision		Interaction

Session Number: 5

Session Outcome: Student able to evaluate to ERP or Not.

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction to Case		Case Study
25	ERP or Not; Strategic Decision	5	Case Reading and Evaluation
15	Q & A		Interaction
05	Summary		Interaction

Session Number: 6

Session Outcome: Student able to classify ERP benefits

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction		Lecture
30	Benefits from ERP technology	4	Lecture
10	Q & A		Interaction
05	Revision		Interaction

Session Number: 7

Session Outcome: Student able to classify ERP benefits

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction		Lecture
30	Qualitative and Quantitative benifits	4	Lecture
10	Q & A		Interaction
05	Revision		Interaction

Session Number: 8

Session Outcome: Student able to assess the need for ERP Technologies in a firm.

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction to Case		Case Study
25	Essential of ERP Technology	5	Case Reading and Evaluation
15	Q & A		Interaction
05	Summary		Interaction

Session Number: 9

Session Outcome: Student able to evaluate the risks involved in ERP implementation

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction		Lecture
30	People, Process, Implementation, Operational and Technological risks	5	Lecture
10	Q & A		Interaction
05	Revision		Interaction

Session Number: 10

Session Outcome: Student able to asses ERP related technologies

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction		Lecture
25	ERP related technologies and the role in integration	5	Video Lecture
15	Q & A		Interaction

05	Revision		Interaction

Session Number: 11

Session Outcome: Student able to Understand functional modules in ERP.

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction		Lecture
30	Functional Modules	2	Lecture
10	Q & A		Interaction
05	Revision		Interaction

Session Number: 12

Session Outcome: Student able to analyze a right module for a firm's need

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction to Case		Case Study
25	Choosing a module for a firm's data management need	4	Case Reading and Evaluation
15	Q & A		Interaction
05	Summary		Interaction

Session Number: 13

Session Outcome: Student able to evaluate a decision on strategic fit of a technology.

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction		Lecture
30	Strategic fit of a ERP technology in to an organization	5	Lecture
10	Q & A		Interaction
05	Revision		Interaction

Session Number: 14

Session Outcome: Student able to decide the right package of ERP

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction		Lecture
30	ERP Package selection by assessing the needs	4	Lecture
10	Q & A		Interaction
05	Revision		Interaction

Session Number: 15

Session Outcome: Student able to understand the concepts involved in implementation.

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction		Lecture
30	Legacy Systems, Go Live, Implementation preparation	2	Lecture
10	Q & A		Interaction
05	Revision		Interaction

Session Number: 16

Session Outcome: Student able to analyze the implementation methodologies

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction		Lecture
30	Bigbang, Min Bigbang and Parallel methodologies	4	Lecture
10	Q & A		Interaction
05	Revision		Interaction

Session Number: 17

Session Outcome: Student able to analyze the implementation methodologies

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction		Lecture
30	Process line, Waterfall and hybrid methodologies	4	Lecture
10	Q & A		Interaction
05	Revision		Interaction

Session Number: 18
Session Outcome: Student able to evaluate the requirement for human resources

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction		Lecture
30	Organizing Implementation team	5	Lecture
10	Q & A		Interaction
05	Revision		Interaction

Session Number: 19
Session Outcome: Student able to evaluate the requirement for human resources

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction to Case		Case Study
25	Organization of Implementation	5	Case Reading and Evaluation
15	Q & A		Interaction
05	Summary		Interaction

Session Number: 20
Session Outcome: Student able to compile the success factors of ERP Implementation

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction		Lecture
30	ERP Success factors & measuring the success	5	Lecture
10	Q & A		Interaction
05	Revision		Interaction

Session Number: 21
Session Outcome: Student able to compile the failure factors of ERP Implementation

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction		Lecture
30	ERP failure factors & Predicting the failure factors		Lecture
10	Q & A	5	Interaction
05	Revision		Interaction

Session Number: 22
Session Outcome: Student able to Evaluate the ERP maintenance

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction		Lecture
30	Organizing the maintenance of ERP	5	Lecture
10	Q & A		Interaction
05	Revision		Interaction

Session Number: 23 - 45
Session Outcome: Student would be able to Design the SAP Package.

Time(min)	Topic	BTL	Teaching – Learning Method
10	Introduction	1	Lecture
30	SAP ERP (SAP ERP Foundation program)	5	Lecture
15	Q & A	5	Interaction

EVALUATION PLAN;

Evaluation Component	Weightage /Marks	Date	Duration (Hours)	CO 1			CO 2			CO 3			CO 4		
COI Number				1	2	3	1	2	3	1	2	3	1	2	2
BTL				1	2	2	1	2	3	1	2	3	2	3	3
Test 1	**Weightage (10%)**	30th Jan	90 mins	3	3	4									
	Max Marks (20)	2nd Feb		6	6	8									
Test 2	**Weightage (10%)**	5th March	90 mins				4	3	3						
	Max Marks (20)	8th March					8	6	6						
Test 3	**Weightage (10%)**	3rd April	90 mins							3	3	4			
	Max Marks (10)	6th Zpril								6	6	8			
Active Learning	**Weightage (15%)**	9th March		SAP ERP Foundation Training - Simulation Case Evaluation											
	Max Marks (50)	10th March													
Attendance	**Weightage (5%)**			Attendance											
	Max Marks (5)														
Semester End Exam	**Weightage (50%)**		180 mins	3	3	4	3	3	4	3	3	4	6	6	8
	Max Marks(50)			3	3	4	3	3	4	3	3	4	6	6	8
	Question Number			1	2-7	8	1	2-7	8	1	2-7	8	1	2-7	8

Course Team members, Chamber Consultation Hours and Chamber Venue details: Only Subject Teacher

S.No.	Name of Faculty	Chamber Consultation Day(s)	Chamber Consultation Timings for each day	Chamber Consultation Room No:	Signature of Course faculty
1	Dr. P.V. Vijay Kumar Reddy	Wednesday	3 to 6 P.M- 3 hours	5th Floor - New Library Building	

Signature of COURSE COORDINATOR:

Recommended by HEAD OF DEPARTMENT:

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Hari Kiran Vege,

Assoc.Dean-TLP
for **Approved By: DEAN-ACADEMICS**

(Sign with Office Seal)