

SRM UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY
SCHOOL OF COMPUTING
DEPARTMENT OF SOFTWARE ENGINEERING
COURSE PLAN

Course Code CS0375
Course Title ENTERPRISE RESOURCE PLANNING
Semester VII
Course Time JUNE - DEC 2014

Day	B.Tech-SWE(Elective)	
	Hour	Timing
Day 1	5	1.30-2.20
Day 2	-	
Day 3	1	8.45-9.35
Day 4	-	-
Day 5	2,4	9.35-10.25,11.25-12.15

Location: University Building (12th Floor)

Faculty Details

Sec.	Name	Office	Office Hour
B.Tech -SWE (Elective)	Mr.K.Vijayakumar	UB-12 Floor	Monday-Friday

Required Text Books:

1. Vinod Kumar Garg, N K Venkatakrishna, "Enterprise Resource Planning – Concepts and Practices, Prentice Hall, 2000
2. S Sadagopan, " Enterprise Resource Planning ", Prentice Hall, 2001
3. Bret Wagner, Ellen Monk, " Enterprise Resource Planning ", Third Edition Cengage Learning, 2008

REFERENCE BOOKS

1. Alexis Leon, Enterprise Resource Planning Tata McGraw Hill, 2003

Web Resources:-

1. www.erpwire.com
2. www.sap.com/solutions/business-suite/erp/index.epx
3. www.erp.com
4. www.itcsoftware.com/eB2K_ERP.htm
5. www.patni.com/erp.aspx.aspx

Prerequisite : NIL

Objectives:

In this course, students learn the following topics:

1. Understanding the importance of Enterprise-wide systems to business operations.
2. Understanding basic concepts, tools and techniques of Enterprise Resource Planning.
3. Understanding the business model and implementing ERP
4. To learn to use commercial ERP packages

Assessment Details

Cycle Test – I	10 Marks
Cycle Test – II	10 Marks
Surprise Test	5 Marks
Attendance	5 Marks
Model Exam	20 Marks
Internals Total	50 Marks

Test Schedule

S.No	Date	Test	Topics	Duration
1	As per Calender	Cycle Test 1	Unit I & II	2 periods
2	As per Calender	Cycle Test 2	Unit III & IV	2 periods
3	As per Calender	Model Test	Unit V	3 hours

Outcomes

Students who have successfully completed this course will have full understanding of the following concepts

Course Outcome	Program Outcome
To learn about Supply Chain Management	An ability to understand the basic functioning of Supply chain and management techniques
Implementation ERP domain MFGPRO – IFS Avalon –	An ability to understand the basic functioning of implementation of ERP and MFGPRO
Industrial and Financial Systems	An ability to design of types of ERP
Commercial ERP Database Interface	An ability to understand the basic functioning of ERP Interfaces.

Detailed Session Plan

UNIT I- INTRODUCTION TO ERP: ERP as Integrated Management Information System – Evolution of ERP - Benefits of ERP. ERP vs Traditional Information Systems

SESSION NO	TOPICS TO BE COVERED	TIME (MIN)	REF	TEACHING METHOD	TESTING METHOD
1	Introduction to ERP	50	1	BB	Discussion
2	ERP as Integrated Management Information System	50	1	BB	Discussion ,Quiz ,Objective type questions
3	Seamless Integration	50	1	BB	Discussion
4	Supply chain management	50	1	BB	Discussion
5	Integrated Data Model	50	1	BB	Discussion
6	Resourcs Management	50	1	BB	Discussion
7	Evolution of ERP	50	1	BB	Discussion
8	Benefits of ERP	50	1	BB	Discussssion,Comparitive study
9	ERP Vs Traditional Information Systems	50	1	BB	Discussion

UNIT II -BUSINESS PROCESS REENGINEERING: Business Process Reengineering- need and challenges, - Management concerns about BPR. - BPR to build business, Model for ERP. ERP & Competitive advantage, - Basic Constituents of ERP, Selection criteria for ERP Packages. Procurement process for ERP Package

SESSION NO	TOPICS TO BE COVERED	TIME (MIN)	REF	TEACHING METHOD	TESTING METHOD
10	Business Process Reengineering	50	1	BB	Discussion
11	BPR - Need and challenges	50	1	BB	Quiz ,Objective type questions
12	Management concerns about BPR	50	1	BB	Discussssion,Comparitive study
13	BPR to build business	50	1	BB	Discussion
14	Model for ERP	50	1	BB	Discussion / Quiz,Assignment.
15	ERP & Competitive	50	1	BB	Quiz

	advantage				
16	Basic Constituents of ERP	50	1	BB	Quiz, Objective type questions
17	Selection criteria for ERP Packages	50	1	BB	Group Discussion
18	Procurement process for ERP Package	50	1	BB	Group Discussion

UNIT III -ERP PACKAGES: Overview of ERP packages – PEOPLE SOFT, SAP-R/3, BAAN IV, MFG/PRO, IFS/AVALON, ORACLE- FINANCIAL, Survey of Indian ERP Packages regarding their Coverage, performance & cost

SESSION NO	TOPICS TO BE COVERED	TIME (MIN)	REF	TEACHING METHOD	TESTING METHOD
19	Overview of ERP packages	50	1	BB	Discussion
20	PEOPLE SOFT	50	1	BB	Objective type test, Quiz
21	SAP-R/3	50	1	BB	Discusssion, Comparative study
22	BAAN IV	50	1	BB	Discussion
23	MFG/PRO	50	1	BB	Discusssion, Comparative study
24	IFS/AVALON	50	1	BB	Discusssion, Comparative study
25	ORACLE-FINANCIAL	50	1	BB	Discusssion, Comparative study
26	Survey of Indian ERP Packages regarding their Coverage	50	1	BB	Group Discussion, Assignment.
27	Performance & cost	50	1	BB	Group Discussion, Assignment

UNIT IV -ERP IMPLEMENTATION: ERP Implementation- issues, Role of Consultants, Vendors, Users, - Need for training, customization. ERP implementation methodology and post implementation issues and options

SESSION NO	TOPICS TO BE COVERED	TIME (MIN)	REF	TEACHING METHOD	TESTING METHOD
28	ERP Implementation-issues	50	1	BB	Discussion
29	Role of Consultants	50	1	BB	Quiz, Objective type test

30	Role of Vendors	50	1	BB	Discusssion,Comparative study
31	Role of Users	50	1	BB	Discussion
32	Need for training	50	1	BB	Discusssion,Comparative study
33	Need for customization	50	1	BB	Discusssion,Comparative study
34	ERP implementation methodology	50	1	BB	Discusssion,Comparative study,Assignment.
35	Post implementation issues	50	1	BB	Group Discussion
36	Post implementation options	50	1	BB	Group Discussion

UNIT V-ERP CASE STUDIES: ERP Case Studies in HRM, FINANCE, PRODUCTION, PRODUCT DATABASE, MATERIALS, SALES & DISTRIBUTION

SESSION NO	TOPICS TO BE COVERED	TIME (MIN)	RE F	TEACHING METHOD	TESTING METHOD
37	ERP Case Studies in HRM	50	1	BB	Discusssion,Comparit ive study.
38	ERP Case Studies in FINANCE	50	1	BB	Discusssion,Comparit ive study ,Assignment
39	ERP Case Studies in PRODUCTION	50	1	BB	Discusssion,Comparit ive study.
40	ERP Case Studies in PRODUCT DATABASE	50	1	BB	Discusssion,Comparit ive study, Assignment
41	ERP Case Studies in MATERIALS	50	1	BB	Discusssion,Comparit ive study.
42	ERP Case Studies in, SALES & DISTRIBUTION	50	1	BB	Discusssion,Comparit ive study.

BB – Black Board

PP – Power Point

Staff In Charge

Signature of the HOD