SCHEME OF COURSE WORK

Course Details:

Course Title:	**ERP & Supply Chain Management**		
Course Code:	15IT1103	**L T P C**	**: 3 0 0 3**
Program:	**B.Tech.**		
Specialization:	**INFORMATION TECHNOLOGY**		
Semester:	**V**		
Prerequisites:			
Courses to which it is a prerequisite:	**N/A**		

Course Outcomes (COs):

	At the end of the course the student will be able to
1	Describe need for enterprise business software.
2	Describe enterprise business software packages/models
3	Recognize importance of Supply chain to run organization successfully
4	Distinguish different supply chain metrics.
5	Describe key requirements of IT in supply chain.

Program Outcomes (POs):

1	Graduates will be able to apply the knowledge of mathematics, science, engineering fundamentals and principles of Computer Science & Engineering to solve complex problems in different domains.
2	Graduates can identify, formulate, study contemporary domain literature and analyze real life problems and make effective conclusions using the basic principles of science and engineering.
3	Graduates will be in a position to design solutions for Engineering problems requiring in depth knowledge of Computer Science and design system components and processes as per standards with emphasis on privacy, security, public health and safety.
4	Graduates will be able to conduct experiments, perform analysis and interpret data as per the prevailing research methods and to provide valid conclusions.
5	Graduates will be able to select and apply appropriate techniques and use modern software design and development tools. They will be able to predict and model complex engineering activities with the awareness of the practical limitations.

6	Graduates will be able to carry out their professional practice in Computer Science & Engineering by appropriately considering and weighing the issues related to society and culture and the consequent responsibilities.
7	Graduates would understand the impact of the professional engineering solutions on environmental safety and legal issues.
8	Graduates will transform into responsible citizens by adhering to professional ethics.
9	Graduates will be able to function effectively in a large team of multidisciplinary streams consisting of persons of diverse cultures without forgetting the significance of each individual's contribution.
10	Graduates will be able to communicate effectively about complex engineering activities with the engineering community as well as the general society, and will be able to prepare reports.
11	Graduates will be able to demonstrate knowledge and understanding of the engineering and management principles and apply the same while managing projects in multidisciplinary environments.
12	Graduates will engage themselves in self and life-long learning in the context of rapid technological changes happening in Computer Science and other domains.

Course Outcome versus **Program Outcomes**

PO / CO	PO1	PO2	PO3*	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO-1			3								2				
CO-2									3	3					
CO-3									3		3				
CO-4										3					
CO-5															

S - **Strongly correlated**, M - **Moderately correlated**, Blank - **No correlation**

Assessment Methods:	Assignment / Quiz / Seminar / Case Study / Mid-Test / End Exam

Teaching-Learning and Evaluation

Week	TOPIC / CONTENTS	Course Outcomes	TEACHING-LEARNING STRATEGY	Assessment Method & Schedule
1	ENTERPRISE: An Overview, Benefits of ERP, ERP and related technologies, Business Process reengineering,	CO-1	▫ Lecture	Assignment-1, Quiz-1, Mid-1
2	Data Warehousing, Data Mining, On-line Analytical Processing (OLAP).	CO-1	▫ Lecture	Assignment-1, Quiz-1, Mid-1
3	.Implementation life cycle, Implementation methodologies, Vendors and consultants, Contracts with vendors, consultants and employees, project management and monitoring	CO-1	▫ Lecture	Assignment-1, Quiz-1, Mid-1
4	Finance, Manufacturing (production)	CO-2	▫ Lecture	Assignment-1, Quiz-1, Mid-1
5	Human Resources,	CO-2	▫ Lecture	Assignment-1, Quiz-1, Mid-1
6	Plant maintenance, Materials management.	CO-2	▫ Lecture	Assignment-1, Quiz-1, Mid-1
7	SAP AG, Oracle Corporation, People Soft,	CO-3	▫ Lecture	Assignment-1, Quiz-1, Mid-1
8	JD Edwards, QAD Inc., SSA Global	CO-3	▫ Lecture	Assignment-1, Quiz-1, Mid-1
9	**MID TEST -1**			
10	UNDERSTANDING THE SUPPLY CHAIN : What is supply chain?, Historical Perspective, the objective of a supply chain, the importance of supply chain decisions, decision phases in supply chain , process view of a	CO-3	▫ Lecture	Assignment-2, Quiz-2, Mid-2

	supply chain, examples of supply chains.			
11	Achieving strategic fit and scope: Competitive and supply chain strategies	CO-4	▫ Lecture	Assignment-2, Quiz-2, Mid-2
12	achieving strategic fit, expanding strategic scope,	CO-4	▫ Lecture	Assignment-2, Quiz-2, Mid-2
13	obstacles to achieve strategic fit.	CO-4	▫ Lecture	Assignment-2, Quiz-2, Mid-2
14	The role of IT in a supply chain, the supply chain IT framework, Customer relationship management, internal supply chain management, supply relationship management	CO-5	▫ Lecture	Assignment-2, Quiz-2, Mid-2
15	the transaction management foundation, the future of IT in a supply chain, Risk management in IT, supply chain IT in practice, IT System selection processes - Indian Approach and Experiences.	CO-5	▫ Lecture	Assignment-2, Quiz-2, Mid-2
16	**MID-TEST -II**			