

C. Syllabus Detailing and Learning objectives

Module	Chapter	Detailed Content	Syllabus Detailing	Learning Objectives
Module 1	CH 1 Introducti on (Hours -2)	1.1 What is an Enterprise, Introduction to ERP, Need for ERP, Structure of ERP, Scope and Benefits, Typical business	Purpose : To make students understand ERP concepts. Discuss the need, features and benefits of ERP, Structure of ERP and; concept of business processes.	 To develop the understanding of fundamentals and technological aspects of ERP,along with business processes concepts(R) To understand and explain the structure of ERP with proper diagrams with labelling
		processes	 Scope – 1. Academic Aspects- Understanding ERP concept, its structure. 2. Technology Aspect- ERP technologies 3. Application Aspect- Application of ERP for different enterprises. Students Evaluation – 1. Theory Questions to be asked on ERP. 	 and Applications along with the understanding and comprehension of various components (U) 3. To Distinguish Between normal business process Vs ERP system (A) 4. To understand different ERP
			 2. Lab experiments for ERP design. 3. Corresponding viva questions can be asked for ERP concepts. 	technologies and their Applications along with the different levels of implementation (AN)
	ERP and Technolog y (Hours -4)	2.1 ERP and related technologies, Business Intelligence, E- business and E-commerce, Business Process Reengineering.	rurpose – To make students understand EKP and related technologies, Business Intelligence, , Business Process Reengineering. Discuss E-business and E-commerce and study its various applications.	 5. Evaluate ERP system for each of the enterprise types, Review different types of technologies(E) 6. Examine the problem definition for any enterprise, Understanding the problem definition and construct structure for the same (C)



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			 Scope – 1. Academic Aspects- Understanding different types of technologies. 2. Technology Aspect- designing tools. 3. Application Aspect- Application of E-business and E-commerce and ERP for different enterprises. Students Evaluation – 1. Theory Questions to be asked on ERP and related technologies, Business Intelligence, E-business and E-commerce, Business Process Reengineering. 2. Lab experiments for ERP related technologies. 3. Corresponding viva questions can be asked for ERP and related technologies. 	
Module 2	Chapter 3 ERP and Implement ation (Hours -6)	3.1 ERP implementation and strategy, Implementation Life cycle, Pre-implementation task, requirement definition, implementation methodology.	 Purpose- This chapter is focused on the ERP implementation and strategy. Scope – Academic Aspects- To study Implementation Life cycle, Pre-implementation task, requirement definition , implementation methodology. Technology Aspect- Application Aspect- Students should understand how the ERP sysyem can be implemented. Students Evaluation – Challenges in ERP implementation. Listing strategies in ERP implementation. 	 List strategies of ERP implementation. Characterize functional investigation and implementation of each phase of ERP cycle.(R) Comprehend the concept of Implementation Life cycle, Pre-implementation task, requirement definition , implementation methodology., tabulate the feature points along with their applications. (U)* Illustrate ERP implementation, enlist ERP implementation strategies and Comprehend the ERP process. Explain the functionality of ERP implementation life cycle. List the Pre-implementation task, requirement definition , implementation methodology . (A) Distinguish between traditional business



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				process and ERP implementation. Understand the ERP implementation.(AN) 5.Evaluate ERP implementation, comment on itsstrategies.(E) 6. Construct ERP, list the examples of ERP. (C)
Module 3	Chapter 4 - ERP Business Modules (Hours -8)	4.1 Modules: Finance, manufacturing, human resources, quality Management, material management, marketing. Sales distribution and service.	 Purpose – The Related Concept to ERP business modules are discussed in detail here. These are the major factors of any ERP. Student will be also made aware of different business modules in this chapter . Scope – Academic Aspects- Student will study the ERP business modules. Use this knowledge for successful impementation different modules in lab environment. Technology Aspect- WEKA, Any programming language like C++, Java Application Aspect- List the business modules of ERP. Explain the concept of each module and how it is executed. Student Evaluation - List the ERP business modules. List the challenges faced and explain the mitigation techniques while implementing the business module. Students can be asked to implement this skill for applying it in different areas students should explain the ERP business modules 	 Tabulate various ERP business modules.Explain how these modules can be deciding successful ERP.List the requirement for ERP business modules. (R) Match Key points of different ERP business modules. Also comment on ERP business modules. Also comment on ERP business modules (R) Estimate and Characterize different ERP business modules., List and tabulate in influencing factors, compare it for different ERP business processes (A) Examine ERP business modules.Discuss and relate how the different ERP business modules. are implementation countermeasures based on this. (A) Analyze ERP business modules. examine the performance of different modules.(AN) Asses the need for different ERP business modules. Discuss the concept of ERP business modules. Categorize the



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				different ERP business modules.are used for different applications in various field. (E)
Module 4	Chapter 7 Introduction and strategic decisions in SCM (Hours -8)	6.1 Introduction to SCM, Generic Types of supply chain, Major Drivers of Supply chain, Strategic decisions in SCM, Business Strategy, CRM strategy, SRM strategy, SCOR model.	 Purpose – strategic decisions in SCM are comprehended in this chapter. Generic Types of supply chain, Major Drivers of Supply are other important topics to be studied. Scope – Academic Aspects- To study Generic Types of supply chain, Major Drivers of Supply chain, Strategic decisions in SCM, Business Strategy, CRM strategy, SRM strategy, SCOR model. Technology Aspect- Framing Business Strategy, CRM strategy, SRM strategy, SCOR model for SCM. Application Aspect- Generic Types of supply chain, Major Drivers of Supply chain, Strategic decisions in SCM, Business Strategy, CRM strategy, SRM strategy, SCOR model.are required in every project of SCM. Student Evaluation - Listing the Generic Types of supply chain, Major Drivers of Supply chain, Comparison of Business Strategy, CRM strategy, SRM strategy. Comprehension of Business Strategy, CRM strategy, SRM strategy. Comprehension of Business Strategy, CRM strategy, SRM strategy. CoR model Analysis and Concept 	 Describe SCM and Summarize its Generic Types of supply chain, Major Drivers of Supply chain,, compare the Business Strategy, CRM strategy, SRM strategy, Outline the advantages of SCOR model(R) Comprehend basic consideration for SCOR model. (U) Cite Strategic decisions in SCM, Business Strategy, CRM strategy, SRM strategy, SCOR model Comment on the Strategic decisions in SCM, Business Strategy, CRM strategy, SRM strategy, SCOR model. (A) Summarize the strategic decisions in SCM Design, Develop and Code Business Strategy, CRM strategy, SRM strategy (AN) Synthesize Strategic decisions in SCM. Cite need and functionality of SCOR model. (C) Examine the feasibility of Strategic decisions in SCM., comment Strategic



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				decisions in SCM will be used. (E)
Module 5	Chapter 7 Information Technology in SCM (Hours -6)	7.1 Types of IT Solutions like Electronic Data Inter change (EDI), Intranet/ Extranet, Data Mining/ Data Warehousing and Data Marts, E-Commerce, E- Procurement, Bar coding, RFID, QR code.	Purpose – Information Technology in SCM are discussed here. Types of IT Solutions to be discussed. Data mining,data warehouse are to be studied here. Scope – 1. Academic Aspects- Types of IT Solutions like Electronic Data Inter change (EDI), Intranet/ Extranet, Data Mining/ Data Warehousing and Data Marts, E-Commerce, E- Procurement, Bar coding, RFID, QR code. 2. Technology Aspect- To understand the need of intranet, extranet, Data Mining/ Data Warehousing and Data Marts, 3. Application Aspect- Adoption process of Data Mining/ Data Warehousing and Data Marts, 3. Application Aspect- Adoption process of Data Mining/ Data Warehousing and Data Marts, 1. Theory, and viva questions on Information Technology in SCM 2. Discuss different IT solutions for SCM 3. Phases during ERP(Data Mining/ Data Warehousing and Data Marts) 4. Application of Information Technology in SCM	 Cite requirement involved in SCM,enlist the Types of IT solutions (R) Tabulate Factors driving the different IT solutions and the steps taken for implementation(R) Summarize the different IT solutions and Mathematical modelling for SCM for SCM(U) Investigate Adoption different IT solutions for SCM and the advantages and disadvantages of each.(AN) Summarize different IT solutions for SCM ,Mathematical modelling for SCM and develop it (AN) Estimate the need of different IT solutions for SCM, the Application and its impact on the SCM.Cite the factors involved in this.(E)
	Chapter 9 Mathematic al modelling for SCM(8.1 Introduction, Considerations in modelling SCM systems, Structuring	Scope – 1. Academic Aspects- Considerations in modelling SCM systems, Structuring the logistics chain, overview of models.	



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	Hours-6)	the logistics chain, overview of models: models on transportation problem, assignment problem, vehicle routing problem, Model for vendor analysis, Make versus buy model.	 2. Technology Aspect- Types of mathematical model for SCM, models on transportation problem, assignment problem, vehicle routing problem, Model for vendor analysis, Make versus buy model. should be discussed in class. 3. Application Aspect- Use of Types of models like transportation problem, assignment problem, vehicle routing problem, Model for vendor analysis, Make versus buy model. Student Evaluation – Theory and viva questions on the SCM mathematical models. Examples of models on transportation problem, assignment problem, vehicle routing problem, Model for vendor analysis, Make versus buy model. 	
Module 6	Chapter 5 Extended ERP (Hours -4)	5.1 Enterprise application Integration (EAI), open source ERP, cloud ERP.	 Purpose – Enterprise application Integration (EAI), open source ERP, cloud ERP are discussed here. Scope – 1. Academic Aspects- Enterprise application Integration (EAI), open source ERP, cloud ERP. 2. Technology Aspect- Industry standards for Enterprise application Integration (EAI), open source ERP, cloud ERP. 3. Application Aspect- Enterprise application Integration (EAI), open source ERP, cloud ERP. 3. Application Aspect- Enterprise application Integration (EAI), open source ERP, cloud ERP. Tools used for the same. 3. Application Aspect- Enterprise application Integration (EAI), open source ERP, cloud ERP. and its implementation. Using these concepts for ERP.	 Define Enterprise application Integration (EAI),Agility of SCM(R) Summarize the Concept of Enterprise application Integration (EAI), open source ERP, cloud ERP, aglility in SCM. (U) Examine the use of Enterprise application Integration (EAI), open source ERP, cloud ERP, aglility in SCM Cite need and application of Enterprise application Integration (EAI), open source ERP, cloud ERP, aglility in SCM (A) Asses different case studies of SCM (E) Asses the challenges in SCM (E)



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Chapter Agile Supply Chain (Hours -	 9 9.1 Introduction, Characteristics of Agile Supply Chain, Achieving Agility in Supply Chain. 2) 	Student Evaluation – 1. Theory and viva questions for Enterprise application Integration (EAI), open source ERP, cloud ERP. 2. Need for Enterprise application Integration (EAI), open source ERP, cloud ERP. 3. Industry standards for Enterprise application Integration (EAI), open source ERP, cloud ERP. Purpose – The Agile Supply Chain is discussed here, Characteristics of Agile Supply Chain, Achieving Agility in Supply Chain are the matter for the consideration. Scope – 1. Academic Aspects- Introduction, Characteristics of Agile Supply Chain, Achieving Agility in Supply Chain 2. Technology Aspect- Industry standards for Agility in Supply Chain. 3. Application Aspect- Agility in Supply Chain and its implementation. Using these concepts for SCM. Student Evaluation – 1. Theory and viva questions for Agile Supply Chain 2. Need for Agile Supply Chain 3. Industry standards for Agile Supply Chain	6.Estimatethe need of agility in SCM.Cite the factors involved in this.(E)
Chapter	10 10.1 Cases of Supply	Purpose –	
Cases o	f Chain like, News	The Cases of Supply Chain is discussed here, how SCM is	
Supply	Paper Supply Chain.	used for different case studies is the matter for the	



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Chain	Book Publishing, Mumbai Dabbawala, Disaster management, Organic Food, Fast Food.	consideration.
(Hours -2)		Scope – 1. Academic Aspects- Cases of Supply Chain 2. Technology Aspect- Industry standards for SCM. 3. Application Aspect- SCM and its implementation. Using these concepts for News Paper Supply Chain, Book Publishing, Mumbai Dabbawala, Disaster management, Organic Food, Fast Food
		Student Evaluation – 1. Theory and viva questions for Cases of Supply Chain 2. Need for SCM for different industry sectors 3. Industry standards for SCM