

Course Code	PIT21E103J	Course Name	ENTERPRISE RESOURCE PLANNING	Course Category	D	Discipline Elective Courses	L	T	P	C
							3	0	2	4

Pre-requisite Courses	Nil	Co-requisite Courses	Nil	Progressive Courses	Nil
Course Offering Department	Computer Science	Data Book / Codes/Standards	Nil		

Course Learning Rationale (CLR):	The purpose of learning this course is to,	Learning	Program Learning Outcomes (PLO)
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CLR-1 : Overview of enterprise systems	1	2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2 : Overview of ERP software solutions-.				Disciplinary Knowledge	Critical Thinking	Problem Solving	Analytical Reasoning	Research Skills	Team Work	Scientific Reasoning	Reflective Thinking	Self-Directed Learning	Multicultural	Ethical Reasoning	Community	ICT Skills	Leadership Skills	Life Long Learning
CLR-3 : ERP Implementation																		
CLR-4 : Maintenance of ERP																		
CLR-5 : Extended ERP systems and ERP add-ons																		
CLR-6 : Case study - ERP																		

Course Learning Outcomes (CLO):	At the end of this course, learners will be able to:	Level of Thinking	Expected Proficiency	Expected Attainment	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLO-1 : Have a thorough study about ERP		2	85	80	H	H	H	H	H	-	-	M	M	L	-	H	-	-	-
CLO-2 : Have a look about ERP Software Solution		3	85	80	L	H	H	H	H	-	-	M	M	L	-	H	-	-	-
CLO-3 : To implement ERP Software Solutions		3	85	80	L	H	H	H	H	-	-	M	M	L	-	H	-	-	-
CLO-4 : To maintain ERP System		3	85	80	L	H	H	H	H	-	-	M	M	L	-	H	-	-	-
CLO-5 : Knowledge about Extended ERP System and ADD-ONS		3	85	80	L	H	H	H	H	-	-	M	M	L	-	H	-	-	-
CLO-6 : Case study – ERP in Cloud computing		3	85	80	L	H	H	H	H	-	-	M	M	L	-	H	-	-	-

Duration (hour)		15	15	15	15	15
S-1	SLO-1	Overview of enterprise systems	Overview of ERP .	ERP Implementation	Maintenance of ERP-	Extended ERP systems and ERP add-ons
	SLO-2	Evolution	software solutions	Implementation	Organizational	CRM
S-2	SLO-1	Business Function	Small enterprise	Issues	Industrial impact;	Function of CRM
	SLO-2	Business Processes	Medium Enterprise	Planning Evaluation	Implementation.	Component of CRM
S-3	SLO-1	Integrated Management Information	Large enterprise	selection of ERP systems	Objective of ERP	Advantage of CRM
	SLO-2	Advantage of ERP Role of the Enterprise	vendor solutions Best business practices	Vendors Management Role of Vendors	Implementation life cycle Objectives of ERP	Features and Function of CRM Benefits of CRM
S 4-5	SLO-1	Laboratory 1: Introduction to ERP System	Laboratory 4: Study of ERP technologies and its ecosystem	Laboratory 7: Study of implementation life cycle	Laboratory 10: Study of industrial impact	Laboratory 13: Study of CRM
	SLO-2					
S - 6	SLO-1	Business Modeling Fundamental technology	BPR Evolution	Consultants	Phase of ERP	Supply Chain Management
	SLO-2	Basic ERP and its Concepts	Different Phase	Role of Consultants	Reason for ERP Failure	Evolution of SCM
S-7	SLO-1	ERP Architecture	Reengineering	Employee Reason	Methodology	Sharing data & gut instant
	SLO-2	Risk of ERP	Challenges faced by Reengineering Efforts	Dealing with Employee Reason	Framework	Improvement in the SCM
S-8	SLO-1	People issues	Business process Management -	Data Migration Process	Training	SCM Software and Hardware
	SLO-2	Process Risk	Introduction,	Migration Methods	Maintenance of ERP	Advantage and Disadvantage
S 9-10	SLO-1	Laboratory 2: Review on different ERP packages	Laboratory 5: Study of BPR	Laboratory 8: Study of Vendors and Consultants	Laboratory 11: Study of ERP issues	Laboratory 14: Study of SCM
	SLO-2					
S-11	SLO-1	Technology Risks	Project Schedule Creation,	Migration Issues	Success factors of ERP	Inventory Management in SCM

	SLO-2	Implementation Issues	Policies	ERP implementation	Role of Success	Business analytics
S-12	SLO-1	Managing Risk on ERP Projects	Accounting and Finance	Methodology	Failure factors of ERP	Future trends in ERP systems
	SLO-2	Benefits of ERP	Implementation Strategy	Frame work	Role of Failure	web enabled
S-13	SLO-1	ERP and Related Technologies	Functional	Training	Implementation Strategy	Wireless technologies
	SLO-2	implementation of cross functional integrated ERP systems	Modules	People Organization in implementation	Methodology	Cloud computing.
S 14-15	SLO-1	Laboratory 3: Study of ERP Architecture	Laboratory 6: Study of different ERP modules	Laboratory 9: Study of ERP migration	Laboratory 12: Study of ERP methodology	Laboratory 15: Case study – ERP in Cloud computing

Learning Resources	<p>3. Alexis Leon, ERP demystified, second Edition Tata McGraw-Hill, 2008.</p> <p>1. Sinha P. Magal and Jeffery Word, Essentials of Business Process and Information System, Wiley India, 2012</p> <p>4. Jagan Nathan Vaman, ERP in Practice, Tata McGraw-Hill, 2008</p> <p>5. Alexis Leon, Enterprise Resource Planning, second edition, Tata McGraw- Hill, 2008.</p> <p>6. MahadeoJaiswal and Ganesh Vanapalli, ERP Macmillan India, 2009</p> <p>Vinod Kumar Grag and N.K. Venkitakrishnan, ERP- Concepts and Practice, Prentice Hall of India, 2006.</p>
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Learning Assessment											
Bloom's Level of Thinking		Continous Learning Assessment(50% Weightage)								Final Examination (50% weightage)	
		CLA – 1 (10%)		CLA – 2 (10%)		CLA – 3 (20%)		CLA – 4# (10%)			
		Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice
Level 1	Remember	20%	20%	15%	15%	15%	15%	15%	15%	15%	15%
	Understand										
Level 2	Apply	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
	Analyze										
Level 3	Evaluate	10%	10%	15%	15%	15%	15%	15%	15%	15%	15%
	Create										
	Total	100 %		100 %		100 %		100 %		100%	

CLA – 4 can be from any combination of these: Assignments, Seminars, Tech Talks, Mini-Projects, Case-Studies, Self-Study, MOOCs, Certifications, Conf. Paper etc.,

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
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