



# Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India  
(Autonomous Institute Affiliated to University of Mumbai)

Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
ITC8041	Enterprise Resource Planning	4	-	-	4	-	-	4
		Examination Scheme						
		ISE		MSE		ESE		
		10	30	100 (60% Weightage)				

Pre-requisite Course Codes	
After successful completion of the course, student will be able to:	
Course Outcomes	CO1   Relate with ERP related technologies
	CO2   Examine ERP development concepts and it's key modules
	CO3   Analyze the ERP implementation lifecycle and the importance of its process in E-business
	CO4   Compare ERP tools and its business benefits.

Module No.	Topics	Ref.	Hrs
1	<b>Introduction to ERP</b> Enterprise – An Overview Integrated Management Information, Business Modeling, Integrated Data Model	1,2,3,4	04
2	<b>ERP and Related Technologies</b> Business Processing Reengineering(BPR),Data Warehousing, Data Mining, On-line Analytical Processing(OLAP),Supply Chain Management(SCM), Customer Relationship Management(CRM), MIS-Management Information System, DSS- Decision Support System, EIS-Executive Information System.	1,2,3,4	06
3	<b>ERP Manufacturing Perspective</b> MRP- Material Requirement Planning, BOM-Bill Of Material, MRP- Manufacturing Resource Planning, DRP Distributed Requirement Planning, PDM – Product Data Management	1,2,3,4	06
4	<b>ERP Modules</b> Finance, Plant Maintenance, Quality Management, Materials Management.	1,2,3,4	06
5	<b>Benefits of ERP</b> Reduction of Lead-Time ,On-time Shipment, Reduction in Cycle Time, Improved Resource Utilization, Better Customer Satisfaction, Improved Supplier Performance, Increased Flexibility, Reduced Quality, Costs, Improved Information Accuracy and Design- making capability.	1,2,3,4	06
6	<b>ERP Implementation Lifecycle</b>	1,2,3,4	06



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	Pre-evaluation Screening, Package Evaluation, Project Planning Phase, Gap Analysis, Reengineering, Configuration, Implementation Team Training, Testing, Going Live, End-user Training, Post-implementation (Maintenance mode).	4	
<b>7</b>	<b>ERP case Studies</b> E-Commerce to E-business E-Business structural transformation, Flexible Business Design, Customer Experience, Create the new techno enterprise, New generation e-business leaders, memo to CEO, Empower your customer, Integrate Sales	4,5,6	06
<b>8</b>	<b>E business architecture</b> Enterprise resource planning the E-business Backbone Enterprise architecture, planning world, ERP usage in Real world, ERP Implementation, Future of ERP applications, memo to CEO ,E-Procurement, E-Governance, Developing the E-business Design..	4,6	08
<b>9</b>	<b>Introduction to ERP tools</b> JD Edwards-Enterprise One. Microsoft Dynamics-CRM Module	4,5,6	04
	<b>Total hours of instructions</b>		48

## References:

1. Alexis Leon, "Enterprise Resource Planning", Tata McGraw Hill.
2. Alexis Leon, "Enterprise Resource Planning" (Diversified), TMH.
3. Ravi Shankar & S. Jaiswal, Galgotia, "Enterprise Resource Planning".
4. Annetta Clewto and Dane Franklin, "Guide to Planning ERP Application", McGraw-Hill, 1997.
5. Jose Antonio, "The SAP R/3 Handbook" McGraw-Hill.
6. Dr. Ravi Kalakota, "E-Business Network Resource planning using SAP R/3 Baan and People soft- A Practical Roadmap For Success".