ITE308	Distributed Systems	L	Т	Р	С
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Version	1.0				
Aim	To learn the concepts of distributed systems and technologies				
Prerequisite	ITE303/Computer Networks/Java				
To learn distribution of computing elements To understand the building blocks of distributed system model					
	 To understand the building blocks of distributed system models To learn how to implement the RPC and distributed protocols and their 				
	applications				
Outcomes	At the end of the course, student should be able to:				
	Understand the build blocks and functions of distributed systems				
	and their implementation processes				
	 Implement distributed applications 			1	
Unit 1	Characterization of Distributed Systems				9 hr
	Introduction to Distributed Systems – System Models – Networking and				
Herita 2	Internetworking – Interprocess Communications - Case Study: IPC in UNIX				
Unit 2	Distributed Objects and File System 9 hr				
	Distributed Objects and Remote Invocation – Distributed File Systems - Architecture – Recent Advances – Overview of Distributed Databases				
Unit 3	Name Services and Directory Service 9 hr				
	Name services – Domain Name Systems – Coordination and Agreement –				
	Time and Global states				
Unit 4	Transaction and Concurrency Control-Distribute	ed		(9 hr
	Transactions				
	Transaction and Nested Transactions – Concurrency Control – Distributed				
Hate E	Transactions) In
Unit 5	Distributed OS and Shared Memory 9 hr				,
	Distributed Operating System Support – Distributed Shared Memory- Peer Peer networks – Web Services Overview – CORBA and Java RMI Case Stud				
Text Books	1.G. Coulouris, J. Dollimore, and T. Kindberg, "Distributed Systems:				
	Concepts and Designs", Fourth Edition, Addison Wesley, 2005				
	2.Andrew.S.Tanenbaum, Maarten Van Steen, "Distributed Systems –				
	Principles and Paradigms", 3e, Second Edition, Prentice Hall -2002,??.				
Reference Books	1. Randy Chow and Theodore Johnson, "Distributed Operating Systems				
	and Algorithms. Addison-Wesley, 1997				
	Mukesh Singhal and N. G. Shivaratri, Advanced Concepts in Operating Systems, Distributed, Database, and Multiprocessor				
	Operating Systems, McGraw Hill, 1994				
	3. Vijay K. Garg, Elements of Distributed Computing, Wiley & Sons, 2002				
MoE	CAT, Quiz, Seminar, Group Discussion, TEE			-,	
DoR by BoS	27-11-2010				
DoA by AC	21st Academic Council held on 30-11-2010				