GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN (JG), DEPARTMENT OF CSE & IT LECTURE SCHEDULE

FACULTY NAMES: S.SUMAHASAN, CH.V.V.D.PRASAD, D.INDU

YEAR: 2017-18 CLASS: IV B.Tech II-Sem

BRANCH: CSE & IT SUBJECT: DISTRIBUTED SYSTEMS

No. of the Unit	Name of the Concept	No. of Classes
	_	Required
Unit-1	Characterization of Distributed Systems	
	Introduction, Examples of Distributed Systems	1
	Resource Sharing and the Web Challenges.	1
	System Models	
	Introduction, Architectural Models- Software Layers,	1
	System Architecture, Variations	1
	Interface and Objects, Design Requirements for	2
	Distributed Architectures,	
	Fundamental Models- Interaction Model	1
	Failure Model, Security Model.	2
	Total Number of Classes	9
	Inter process Communication	
	Introduction, The API for the Internet Protocols- The	2
Unit-2	Characteristics of Inter process communication,	2
	Sockets	1
Omt-2	UDP Datagram Communication,	1
	TCP Stream Communication;	1
	External Data Representation and Marshalling;	1
	Client Server Communication;	2
	Group Communication- IP Multicast- an implementation	2
	of group communication	
	Reliability and Ordering of Multicast.	1
	Total Number of Classes	11
	Distributed Objects and Remote Invocation	
	Introduction, Communication between Distributed	2
Unit-3	Objects- Object Model	2
	Distributed Object Model	1
	Design Issues for RMI, Implementation of RMI	2
	Distributed Garbage Collection	1
	Remote Procedure Call	1
	Events and Notifications, Case Study: JAVA RMI	2
	Total Number of Classes	09
	Total Indilider of Classes	07
	Operating System Support	
	Sperming System Support	1

Unit-4	Introduction, The Operating System Layer	2
	Protection, Processes and Threads Address Space	2
	Creation of a New Process	1
	Threads	1
	Total Number of Classes	06
	Die North Control	1
	Distributed File Systems	
	Introduction, File Service Architecture	1
	Peer-to-Peer Systems: Introduction, Napster and	2
	its Legacy	1
Unit-5	Peer-to-Peer Middleware	1
	Routing Overlays.	1
	Coordination and Agreement	
	Introduction, Distributed Mutual Exclusion,	2
	Elections	2
	Multicast Communication.	1
	Total Number of Classes	10
Unit-6	Transactions & Replications	
	Introduction, System Model and Group Communication	2
	Concurrency Control in Distributed Transactions,	2
	Distributed Dead Locks	2
	Transaction Recovery	2
	Replication-Introduction, Passive (Primary) Replication,	2
	Active Replication.	
	Total Number of Classes	10
OVEDALLNING	BER OF CLASSES REQUIRED	55
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