

Lesson Plan

Name of the Faculty: Er. Narinder Kaur

Discipline :CSE

Semester :6th

Subject : Distributed System (PE-CS-S304A)

Lesson Plan Duration: 15 weeks (Feb-May 2024)

**** Work (04 Lecture) per week (In Hours):Lecture -04**

Week	Lecture Day	Topic (including assignment/test) (In Each Section)	Practical Day	Topic
1	1	Overview of Distributed System	NA	NA
	2	Introduction to Distributed System		
	3	Examples and Application of Distributed System		
	4	Revision		
2	1	Difference Between Centralized and Distributed system	NA	NA
	2	Characteristics and Challenges of Distributed System		
	3	Trends in Distributed system		
	4	Revision		
3	1	Resource sharing in Distributed System	NA	NA
	2	Layers in distributed System		
	3	NOS and DOS		
	4	Revision		
4	1	Middleware and Its Services	NA	NA
	2	Client server and Peer to Peer architecture		
	3	UNIT:2 Interaction Model		
	4	Class Test-1 st unit		
5	1	Synchronous and Asynchronous Distributed system	NA	NA
	2	System Model		
	3	Architectural Model		
	4	Revision		
6	1	Failure Model	NA	NA
	2	Security model		
	3	TCP/UDP Protocol		
	4	Sessional Test-1		
7	1	External Data Representation	NA	NA
	2	Marshalling, Java RMI ,XML		
	3	Multicasting		
	4	Assignmnet-1		
8	1	Network Virtualization	NA	NA
	2	Network Overlay		
	3	MPI		
	4	Revision		
9	1	Remote Method Invocation and Objects	NA	NA
	2	Remote Invocation, Request-reply protocols		
	3	Java RMI ,Group communication, Message queues		
	4	UNIT:3 Peer-to-peer Systems, Napster and its legacy		
10	1	Pastry, Tapestry- Distributed File Systems	NA	NA
	2	File service architecture ,Andrew File system,		
	3	File accessing models – File sharing.		
	4	Revision		
11	1	Name Space Implementation – Name Caches – LDAP	NA	NA
	2	UNIT IV: Introduction – Clocks, events and process states		
	3	Synchronizing physical clocks- Logical time and logical clocks		
	4	Assignmnet-3		
12	1	Global states – Coordination and Agreement	NA	NA
	2	Distributed mutual exclusion – Elections		
	3	Transactions and Concurrency Control		
	4	Global states – Coordination and Agreement		
13	1	Locks – Optimistic concurrency control	NA	NA
	2	Timestamp ordering		
	3	Process Management: Process Migration		

	4	Revision		
14	1	Locks – Optimistic concurrency control	NA	NA
	2	Timestamp ordering		
	3	Process Management: Process Migration		
	4	Revision		
15	1	Resource Management: Introduction	NA	NA
	2	Load Balancing Approach, Load Sharing Approach		
	3	Sessional 3rd		
	4	Revision		

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14	1	The target machine	NA	NA
	2	Code generator algorithm with examples		
	3	Discussion on code generation issues		
	4	Assignmnet-4		
15	1	Runtime environment issues	NA	NA
	2	Peephole Optimization		
	3	Revision		
	4	Sessional Test-3		

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