

## Lesson Plan of the 7<sup>th</sup> semester for session 2020-21 (Jul - Dec)

<b>Name of the faculty:</b>	Ms. Ayushi Chahal
<b>Designation:</b>	Assistant Professor
<b>Discipline:</b>	Computer Science and Engg.
<b>Semester:</b>	7 <sup>th</sup> sem
<b>Subject:</b>	<b>DISTRIBUTED OPERATING SYSTEM</b>
<b>Subject Code:</b>	CSE-423 F
<b>Lesson Plan duration:</b>	15 weeks
<b>Work Load per week in hours:</b>	Lectures- 03, Tutorial- 01

Week	Lecture day	Topic
<b>Section A (Introduction)</b>		
1	1	Introduction on to Distributed System
	2	Goals of Distributed system
	3	Hardware and Software concepts
2	4	Design issues
	5	Communication in distributed system: Layered protocols
	6	ATM networks
3	7	Client – Server model
	8	Remote Procedure Calls
	9	Middleware and Distributed Operating Systems.
4	10	Revision Section A
	11	Class Test Section A
<b>Section B (Synchronization in Distributed System:)</b>		
4	12	Clock synchronization
5	13	Mutual Exclusion
	14	Election algorithm
	15	Bully algorithm
6	16	Ring algorithm
	17	Atomic Transactions
	18	Deadlock in Distributed Systems
7	19	Distributed Deadlock Prevention
	20	Distributed Deadlock Detection
	21	Revision Section B
8.	22	Class Test Section B

<b>Section C</b>		
8.	23	<b>Processes and Processors in distributed systems:</b> Threads
	24	System models
9.	25	Processors Allocation
	26	Scheduling in Distributed System
	27	Real Time Distributed Systems
10.	28	<b>Distributed file systems:</b> Distributed file system Design
	29	Distributed file system Implementation
	30	Trends in Distributed file systems
11.	31	Revision Section C
	32	Class Test Section C
<b>Section D</b>		
11.	33	<b>Distributed Shared Memory:</b> What is shared memory
12.	34	Consistency models
	35	Page based distributed shared memory
	36	shared variables distributed shared memory
13.	37	<b>Case study MACH:</b> Introduction to MACH
	38	process management in MACH
	39	communication in MACH
14.	40	UNIX emulation in MACH.
	41	Revision Section D
	42	Class Test Section D
15.	43	All syllabus revision
	44	Doubt class
	45	All syllabus test