MERI College of Engineering & Technology
(MERI-CET)

Session: 2020-2021
Department: CSE
Subject code: CSE-423-F

Course- CSE
Semester: 7th
Faculty Name : Mr. Neeraj kumar

Name of the Faculty : Mr. Neeraj kumar

Discipline : CSE

Semester : 7th

Subject : Distributed Operating System

Lesson Plan Duration : 15 Weeks (from Aug., 2020 to Nov., 2021)

** Work Load (Lecture/Practical) per week (in hours): Lectures-03, Practicals-06

Week	Theory	
	Lecture day	Topic(Including assignment/test)
1st	1st	Introduction to Distributed System
	2nd	Goals of Distributed system
	3rd	Hardware and Software concepts, Design issues
2nd	1st	Communication in distributed system: Layered protocols
	2nd	ATM networks, Client – Server model
	3th	Remote Procedure Calls and Group Communication
3rd	1st	Middleware and Distributed Operating Systems
	2nd	Revision of 1st unit with test, Synchronization in Distributed System
	3rd	Clock synchronization
4th	1st	Mutual Exclusion
	2nd	Election algorithm, The Bully algorithm
	3rd	Ring algorithm
5th	1st	Atomic Transactions,
	2nd	Deadlock in Distributed Systems
	3rd	Distributed Deadlock Prevention&Detection

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6th	1st	Revision of 2nd unit with test
	2nd	Processes and Processors in distributed systems
	3rd	Threads, System models
7th	1st	Processors Allocation
	2nd	Scheduling in Distributed System
	3rd	Real Time Distributed Systems, Distributed file systems
8th	1st	Distributed file system Design
	2nd	Distributed file system Implementation
	3rd	Trends in Distributed file systems
9th	1st	Revision of 3rd unit with test
	2nd	Distributed Shared Memory& shared memory
	3rd	Consistency models, Page based distributed shared memory
10th	1st	shared variables distributed shared memory
	2nd	Case study MACH
	3rd	Introduction to MACH
11th	1st	process management in MACH
	2nd	Communication in MACH
	3rd	UNIX emulation in MACH
12th	1st	Revision of 4th unit with test
	2nd	Overall Revision
	3rd	Overall Revision