SSN COLLEGE OF ENGINEERING Department of CSE COURSE PLAN

SUBJECT NAME : Distributed Systems

SUBJECT CODE : CS6601

DEGREE / YEAR : B.E., CSE / III YEAR / A & B Section

BATCH : 2015-2019

SEMESTER : **VI** (2017-18: Even)

NAME OF THE STAFF : H. Shahul Hamead & Y. V. Lokeswari

DESIGNATION : Assistant Professor

 $(Content\ Delivery\ Methods\ (CDM)): \ \textbf{Powerpoint\ presentations} \\ \ \textbf{Projector} \\ \ \textbf{Use\ of\ ICT} \\ \ \textbf{Chalk\ and\ Blackboard\ (for\ all\ topics),\ T-Tutorial}$

S. No.	Торіс	CDM	Planned Hours	Actual Hours	Remarks	
1. Examples of Distributed Systems 1						
1.	Examples of Distributed Systems					
2.	Trends, Focus on resource sharing		2			
3.	Challenges		2			
4.	Case study: World Wide Web	S	2			
	Total Hours		7			
Company						
5.	System Models		3			
6.	IPC, The API for internet protocols		1			
7			1			
7.	representation and Multicast communication		1			
8.	Overlay networks, Case Study: MPI					
9.			2			
10	Group communication, Publish-subscribe		1			
10.						
	<u> </u>					
12.		S				
	Total Hours		12			
	<u>UNIT l</u>	<u>III</u>				
13.	P2P Systems, Napster, P2P Middleware		2			
1.4	Routing Overlays, Case Studies: Pastry,		2			
14.	Tapestry					
	Distributed File Systems,	S				
15.	Architecture, Case Study: Andrew File		2			
17.		S	2			
	Total Hours		10			
		<u>IV</u>				
19.	Vector Clock		1			
20.	Global States					
21.	Coordination and Agreement					
22.	Distributed Mutual Exclusion		2			

23.	Election Algorithms		1			
24.	Transactions, Concurrency Control, Locks		2			
25.	Optimistic Control, Atomic Commit Protocol		2			
26.	Time Stamp Ordering		1			
27.	Distributed Deadlocks		2			
28.	Replication, Case Study	S	2			
	Total Hours		18			
<u>UNIT V</u>						
29.	Process Management		2			
30.	Resource Scheduling		2			
31.	Load Balancing		2			
32.	Load Sharing		2			
33.	Task Assignment	•	1			
	Total Hours		9			
	Total Hours		56			

Total Number of Syllabus Hours: 45 Total Number of Planned Hours: 56

Content Delivery Methods (CDM): Lecture and Seminar (S)

Prepared by Verified by Approved by

H. Shahul Hamead

Y. V. Lokeswari PAC Team HOD-CSE