SSN College of Engineering
Department of Computer Science and Engineering

LESSON PLAN

Sub Code & Name: CS6703 – GRID AND CLOUD COMPUTING
Batch/Academic Year:2014-18/17-18 Branch: CSE   Semester: VII

Teaching Methodology and aids: PowerPoint presentations\Projector\Use of ICT\Chalk and Blackboard

<u>Unit I:</u>

S. No	Unit No	Topics to be covered	Hours		Remarks
			Plan	**Actual**	
1	I	Scalable computing over the Internet	1		
2	[9 Hrs]	Network Technologies	1		
3	Introduction	Grid Computing – Introduction	2		
4	to Grid &	Cloud Computing – Introduction	2		
5	Cloud	Service Oriented Architecture	1		
6		Grid Computing – Architecture	2		
7		Standards and Elements of Grid Computing	1		
		Planned Hours	**10**		

<u>Unit II:</u>

S. No	Unit No	Topics to be covered	Hours		Remarks
			Plan	**Actual**	
1	II [9 Hrs]	Grid Services – Introduction	2		
2	GRID	Open Grid Services Architecture (OGSA)	2		
3	SERVICES	Requirements of OGSA – Functional	1		
4		Open Grid Services Infrastructure (OGSI)	2		
5		Grid Service Models	1		
6		Services of OGSA	2		
		Planned Hours	10		

<u>Unit III:</u>

S. No	Unit No	Topics to be covered	Hours		Remarks
			Plan	**Actual**	
1	III [9 Hrs]	Cloud Deployment Models	2		
2	Virtualization	Categories of Cloud Computing	1		
4		Virtualization - Introduction	2		
5		Levels of Virtualization	1		
6		Virtualization – CPU, Memory, I/O	2		
7		Virtual Clusters	1		
8		Resources – Virtualization	1		
		Planned Hours	10		

Unit IV:

S. No.	Unit No	Topics to be covered	Hours		Remarks
			Plan	Actual	
1	IV [9 Hrs] Programming Model for Grid & Cloud	Globus Toolkit (GT4)	2		
2		Globus Programming Model	2		
3		Hadoop – Introduction	2		
4		Programming Hadoop – MapReduce	2		
5		HDFS	2		
		Planned Hours	10		

Unit V:

S. No.	Unit No	Topics to be covered	Hours		Remarks
			Plan	Actual	
1	V [9 Hrs] Security in Grid and Cloud	Grid Computing – Security	1		
2		Grid Security Infrastructure (GSI)	2		
3		Cloud Computing – Security	1		
4		Cloud Computing – Data Security	2		
5		Identity & Access Management in Cloud Computing	2		
6		Issues in Cloud Computing Security	2		
		Planned Hours	10		

Prepared By   **Verified By**   **Approved By**

K. Vallidevi   Y. V. Lokeswari   **PAC Member**   **HOD / CSE**