Name of the Faculty : Madhu Madhan

**Department** : Computer Engineering

**Semester** : 5<sup>th</sup>

**Subject** : Cloud computing

**Lesson Plan Duration** : 15 weeks

\*\*Work load (Lecture / Practical) per week (in hours): Lectures-03, practical -03

	k load (Lecture / Practical) per week (in hours): Lect Theory			Practical		
Week	Lecture day	Topic (Including assignment / test)	Practic al Day	Topic		
1st	1 <sup>st</sup>	I. Introduction to Cloud Computing				
	2 <sup>nd</sup>	Overview of Cloud Computing	1	Introduction to Cloud Vendors		
	$3^{\rm rd}$	Evolution of Cloud computing	2	Introduction to Cloud Vendors		
2nd	1st	Characteristics of Cloud Computing				
	2nd	Applications of Cloud Comp.	1	Setting up Virtualization using Virtualbox/ VMWare Hypervisor		
	3rd	Benefits of Cloud Comp.	2	Setting up Virtualization using Virtualbox/ VMWare Hypervisor		
3rd	1st	Challenges of Cloud Comp.	1	Setting up Virtualization using		
	2nd	Seminar of 1st Chapter		Virtualbox/ VMWare Hypervisor		
	3rd	II Service and Deployment Models Service Models : Overview	2	Setting up Virtualization using Virtualbox/ VMWare Hypervisor		
4th	1st	Infrastructure As A Service		Setting up Virtualization using		
	2nd	Platform As A Service	1	Virtualbox/ VMWare Hypervisor		
	3rd	Software As A Service	2	Setting up Virtualization using Virtualbox/ VMWare Hypervisor		
5th	1st	Cloud Computing Deployment Models: Overview	1	Introduction to OwnCloud		
	2nd	Private Cloud				
	3rd	Public Cloud	2	Introduction to OwnCloud		
6th	1st	Hybrid Cloud				
	2nd	Community Cloud	1	Introduction to OwnCloud		
	3rd	Major Cloud Service Providers	2	Introduction to OwnCloud		
7th	1st	Seminar of 2 <sup>nd</sup> chapter				
	2nd	3. Service Level Agreement Management : Overview of SLA	1	Installation and configuration of OwnCloud software for SaaS		
	3rd	Types of SLA	2	Installation and configurationof OwnCloud software for SaaS		
8th	1st	Types of SLA	1	Installation and configurationof		
	2nd	SLA lifecycle		OwnCloud software for SaaS		
	3rd	SLA management Process	2	Installation and configurationof OwnCloud software for SaaS		
9th	1st	Seminar and 1st Sessional		Accessing Microsoft AZURE		
	2nd	4. Virtualization Concepts : Overview	1			
	3rd	Types of Virtualization	2	Accessing Microsoft AZURE		
10th	1st	Benefits of Virtualization	1	cloud services		

2nd	Hypervisors	2	2 cloud services	
3rd	5. Cloud Security: Overview			

11th	1st	Infrastructure Security			
_	2nd	Data Security	1	Accessing Microsoft AZURE cloud services	
	3rd	Privacy Issues	2	Accessing Microsoft AZUREcloud services	
12th	1st	Legal issues			
_	2nd	Seminar and 2 <sup>nd</sup> sessional	1	Accessing Microsoft AZURE cloud services	
	3rd	<b>6. Cloud Storage:</b> Overview, Storage As A Service	2	Accessing Microsoft AZUREcloud services	
13th	1st	Storage As A Service: Benefits, Storage As A Service: Challenges, SANs,	1	Cloud Simulation Software Introduction: CloudSim	
	2nd	<b>7. Scheduling in Cloud</b> : Overview of Scheduling Problem			
	3rd	Different types of Scheduling , Scheduling for dependent & independenttasks	2	Cloud Simulation Software Introduction: CloudSim	
14th	1st	Static vs. Dynamic Scheduling, Scheduling for dependent & independenttasks	1	Revision	
	2nd	., Static vs. Dynamic Scheduling , Static vs. Dynamic Scheduling, Scheduling for dependent & independenttasks.	2	Revision	
	3rd	Revision	1		
15th	1st	Revision			
	2nd	Revision	1	viva -vice	
	3rd	Revision	2	Final evaluation	