

Name of the Faculty : **VIKRAM SANWAL**
Department : Computer Engineering
Semester : 5th
Subject : Cloud computing
Lesson Plan Duration : 15 weeks

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

Week	Theory		Practical	
	Lecture day	Topic (Including assignment / test)	Practical Day	Topic
1st	1 st	Unit 1: Introduction to Cloud Computing	1st	Introduction to Cloud Vendors
	2 nd	Overview of Cloud Computing		
	3 rd	Evolution of Cloud computing		
2nd	4 th	Characteristics of Cloud Computing	2nd	Introduction to Cloud Vendors
	5 th	Applications of Cloud Comp.		
	6 th	Benefits of Cloud Comp.		
3rd	7 th	Challenges of Cloud Comp.	3rd	Setting up Virtualization using Virtualbox/ VMWare Hypervisor
	8 th	Seminar of 1st Chapter		
	9 th	Unit 2 : Service Models : Overview		
4th	10 th	Infrastructure As A Service	4th	Setting up Virtualization using Virtualbox/ VMWare Hypervisor
	11 th	Platform As A Service		
	12 th	Software As A Service		
5th	13 th	Cloud Computing Deployment Models: Overview	5th	Setting up Virtualization using Virtualbox/ VMWare Hypervisor
	14 th	Private Cloud		
	15 th	Public Cloud		
6th	16 th	Hybrid Cloud	6th	Introduction to OwnCloud
	17 th	Community Cloud		
	18 th	Major Cloud Service Providers		
7th	19 th	Seminar of 2 nd chapter	7th	Installation and configuration of OwnCloud software for SaaS
	20 th	Unit 3 : Overview of SLA		
	21 st	Types of SLA		
8th	22 nd	Types of SLA	8th	Installation and configuration of OwnCloud software for SaaS
	23 rd	SLA lifecycle		
	24 th	SLA management Process		
9th	25 th	Seminar and 1 st Sessional	9th	Installation and configuration of OwnCloud software for SaaS
	26 th	Unit 4 : Overview		
	27 th	Types of Virtualization		
10th	28 th	Benefits of Virtualization	10th	Accessing Microsoft AZURE

	29 th	Hypervisors		cloud services
	30 th	Unit 5: Overview		
11th	31 st	Infrastructure Security	11th	Accessing Microsoft AZURE cloud services
	32 nd	Data Security		
	33 rd	Privacy Issues		
12th	34 th	Legal issues	12th	Accessing Microsoft AZURE cloud services
	35 th	Seminar and 2 nd sessional		
	36 th	Unit 6 : Overview		
13th	37 th	Storage As A Service	13th	Cloud Simulation Software Introduction: CloudSim
	38 th	Storage As A Service: Benefits		
	39 th	Storage As A Service: Challenges		
14th	40 th	SANs	14th	Cloud Simulation Software Introduction: CloudSim
	41 st	Unit 7 : Overview of Scheduling Problem		
	42 nd	Different types of Scheduling		
15th	43 rd	Scheduling for dependent & independent tasks.	15th	Cloud Simulation Software Introduction: CloudSim
	44 th	Static vs. Dynamic Scheduling		
	45 th	Seminar and 3 rd Sessional		