

Lesson Plan

Name Of Faculty : **Vikram Sanwal**

Discipline : **Computer Engg.**

Semester : **Vth**

Subject : **Cloud Computing**

Lesson Plan Duration: 16 Weeks (From 22nd July 2019 to 15 Nov 2019)

Work Load (Lecture / Practical) per week (In hours): Lecture-3, Practical-2)

Week	Theory		Practical	
	Lecture Day	Topic (Including Assignment / Test)	Practical Day	Topic
1	1	Evolution of Cloud Computing	1	Introduction to Cloud Vendors: Amazon, Microsoft, IBM
	2	Cloud Computing Overview		
	3	Characteristics of Cloud Computing		
2	1	Applications and Benefits of CC	2	Introduction to Cloud Vendors: Amazon, Microsoft, IBM
	2	Challenges of CC		
	3	Assignment And Revision		
3	1	Cloud Computing Service Models	3	Introduction to Cloud Vendors: Amazon, Microsoft, IBM
	2	Infrastructure as a Service		
	3	Platform as a Service		
4	1	Software as a Service	4	Setting up Virtualization using Virtualbox/VMWare Hypervisor
	2	Cloud Computing Deployment Models		
	3	Private Cloud; Public Cloud, Community Cloud		
5	1	Hybrid Cloud, Major Cloud Service providers.	5	Setting up Virtualization using Virtualbox/VMWare Hypervisor
	2	Assignment And Revision		
	3	Overview of SLA		
6	1	Types of SLA	6	Viva Voice
	2	SLA Life Cycle		
	3	SLA Management Process		
7	1	Overview of Virtualization	7	Introduction to OwnCloud
	2	Assignment And Revision		
	3	1st Sessional		
8	1	Types of Virtualization	8	Installation and configuration of OwnCloud software for SaaS
	2	Types of Virtualization		
	3	Benefits of Virtualization		
9	1	Hypervisors	9	Installation and configuration of OwnCloud software for SaaS
	2	Assignment And Revision		
	3	Infrastructure Security		
10	1	Data Security & Privacy Issues	10	Viva Voice
	2	Data Security & Privacy Issues		
	3	Legal Issues in Cloud Computing		
11	1	Legal Issues in Cloud Computing	11	Accessing Microsoft AZURE cloud-services
	2	Assignment And Revision		
	3	2nd Sessional		
12	1	Cloud Storage Overview	12	Accessing Microsoft AZURE cloud-services
	2	Storage as a Service		
	3	Benefits and Challenges		
13	1	Storage Area Networks (SANs)	13	Cloud Simulation Software Introduction: CloudSim
	2	Assignment And Revision		
	3	Overview of Scheduling problem		
14	1	Different types of scheduling	14	Cloud Simulation Software Introduction: CloudSim
	2	Different types of scheduling		
	3	Different types of scheduling		

15	1	Scheduling for independent and dependent tasks	15	Viva Voice
	2	Scheduling for independent and dependent tasks		
	3	Static vs. Dynamic scheduling		
16	1	Static vs. Dynamic scheduling	16	
	2	Assignment And Revision		
	3	3rd Sessional		