Curriculum for Special Internship on Cloud Computing

		Session1	Session2
Day1	Cloud Computing – Overview	Overview • Introduction to computing • Trends in Computing • Centralized vs. Distributed Computing • Common properties of Distributed Computing • Need of Distributed Computing	Cloud Computing • Cloud Characteristics • Cloud Services Models • Cloud and Virtualization • Virtual Machines • Cloud Storage • Advantages of Cloud Computing • Disadvantages of Cloud Computing
Day2	Cloud Computing – Deployment Mode & Service Model	**Deployment model** • Public Cloud • Private Cloud • Hybrid Cloud • Community Cloud • Advantages of Public, Private Clouds	**Service Model (XaaS)** Major building blocks of Cloud Computing Architecture • Infra as Service Models (IaaS) • Platform as Service Model (PaaS) • Software as Service Model (SaaS)
Day3	Cloud Computing – Virtualization	Virtualization - Overview • Hypervisor or Virtual Machine Monitor • Server Virtualization Hypervisor Type -1, Type-2 Hands on Virtualization BIOS configuration for Virtualization	Virtualization ... Oracle vm box VM-Ware work station Hyper –V Xen
Day4	Cloud Computing – Deployment Model- Cloud Manager	Deployment Model - A Detailed view Cloud Manager Open stack Azure Google Cloud AWS cloud	Fog Computing Mobile Cloud Computing

Day5	Cloud Computing- Openstack	Demo on OpenStack Installation
		
		OpenStack Overview
		• OpenStack Major Components
		• OpenStack Work Flow
		• OpenStack Storage Concepts
			Hands on Openstack
			        IaaS Creation
			        PaaS