

| Unit | Course Contents | Hours | Cos |
|------|---|-------|----------|
| 1 | <p>First Drive :Introduction, Essentials, Benefits, Why Cloud, Business and IT perspective, Cloud and virtualization, Cloud services requirements, cloud and dynamic infrastructure, cloud computing characteristics.</p> <p>Cloud deployment models: Cloud characteristics, Measured Service, Cloud models, security in a public cloud, public versus private clouds, cloud infrastructure self service.</p> | 08 | CO1 |
| 2 | <p>Cloud as a service: Gamut of cloud solutions, principle technologies, cloud strategy, cloud design and implementation using SOA, Conceptual cloud model.</p> <p>Cloud solutions: Cloud ecosystem, cloud business process management, cloud service management, computing on demand, cloud sourcing.</p> | 08 | CO2 |
| 3 | <p>Cloud offerings: Cloud analytics, Testing under cloud, information security, virtual desktop infrastructure, Storage cloud</p> <p>Cloud Management: Resiliency, Provisioning, Asset Management, Cloud Governance, High availability and disaster recovery, Charging models, usage reporting, billing, and metering.</p> | 08 | CO3 |
| 4 | <p>Cloud virtualization technology: Virtualization defined, virtualization benefits, server virtualization, virtualization for x86 architecture, Hypervisor management software, Virtual infrastructure requirements.</p> <p>Cloud Infrastructure: Deep Dive: Storage virtualization, storage area networks, network attached storage, cloud server virtualization.</p> | 08 | CO4 |
| 5 | <p>Cloud and SOA: SOA journey to infrastructure, SOA and Cloud, SOA defined, SOA and IaaS, SOA-based cloud infrastructure steps, SOA business and IT service.</p> <p>Cloud Mobility : The business problem, Mobile enterprise application platform, Mobile application architecture overview</p> | 08 | CO4, CO5 |

Self-study component:

1. Questions for CIE and SEE not to be set from self-study component.

2. Assignment Questions should be from self-study component only.

MODULE 1: cloud adoption, cloud service defined

MODULE 2: Cloud service defined, On-Premise cloud orchestration and provisioning engine.

MODULE 3: Information storage, retrieval, archive, and protection