**Cloud Computing Syllabus**

**Unit – 1** Introduction- Objectives,  From collaborative to the Cloud – A short history Client – Server Computing, Peer-to-Peer Computing, Distributed Computing, Collaborative Computing, Cloud Computing,  Functioning of Cloud Computing, Cloud Architecture, Cloud Storage, Cloud Services, Industrial Applications.

**Unit – 2** Business Values, Introduction-Objectives, Service Modeling, Infrastructure Services, Platform Services, Software Services - Software as service modes- Massively scaled software as a service- Scale of Economy, Management and Administration.

**Unit–3** Inside Cloud Computing- Introduction-  Objectives, Feeling Sensational about Organization, Making Strategy Decisions- Governance Issues- Monitoring Business Processes- IT Cost Management,

**Unit–4:** Cloud Service Administration- Service Level Agreements and Monitoring-Support Services- Accounting Services, Resource Management- IT Security- Performance Management- Provisioning- Service Management, Untangling Software Dependencies.Data center and disaster recovery center

**Unit–5 :** Types of Cloud Computing SAAS,PAAS,IAAS. Components of Cloud computing. Introduction cloud platform service providers such as AWS,Azure, Google Cloud and Heroku

**Unit–6 :** Developing and deploying a sample static web application on Heroku

**Unit–7 :** Developing and deploying a dynamic web application on Heroku. Database management in cloud

**Unit–8 :** Introduction to various services of AWS.

User and Role creation. Identity management. Simple Storage Service (S3).EC2 Service. Deployment of sample web application using AWS.

Application security. Load balancing

**Unit–9 :** Introduction to managed Services and databases of AWS

Usage of Amazon dynamo DB.

**Unit–10 :** Mini project using AWS