**Cloud Computing Syllabus**

**Module – 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.

**Module – 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.

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

**Module –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

**Module –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

**Module –6 :**Developing and deploying a sample static web application on Heroku/AWS

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

**Module –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.

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

Usage of Amazon dynamo DB.

**Module–10 :**Mini project using AWS