Paper Cade: BCADSE 6.4 Paper title: Elective-III: a. Cloud Computing Teaching Hours – 5 hrs/week

Total Teaching Hours: 60 Hrs. Marks: Th-80+IA-20 Credits: 4

UNIT I

Cloud Computing Basics: Cloud Computing Overview, applications, Intranets and the Cloud, Why Cloud Computing Matters, benefits, limitations, Companies in the Cloud today, Cloud services.

12 Hrs

UNIT II

Cloud Computing Technology: Hardware and Infrastructure, clients, security, network, services, accessing the Cloud, Platform, Web Applications, Web APIs, web browsers, Cloud Storage – Overview, Cloud Storage Providers, standards, Application, Client, Infrastructure, Service.

UNIT III

Cloud Computing At Work: Software as a service – Overview, driving forces, Company offerings, Industries, Software plus Services – Overview, Mobile Device Integration –Providers, Microsoft Azure, Google Cloud Platform, AWS (Workflow Demonstration).

UNIT IV

Developing Applications: Google, Microsoft, Intuit Quick Base, Cast Iron Cloud, Bungee Connect, Local clouds and Thin Clients, Virtualization, Server Solutions, Thin Clients.

12Hrs

UNIT V

Migrating to the Cloud Services for Individuals, Cloud services aimed at the mid, market – Enterprise, Class Cloud Offerings, Migration.

References:

- 1. Velte T. Antony, Velte J. Toby. and Elsen Peter Robert, Cloud Computing: A Practical Approach, Tata McGraw-Hill
- 2. Miller Michael, Cloud Computing: Web-Based Applications That Change the Way You Work and Collaborate Online, QuePublishing.
- 3. Beard Haley, Cloud Computing Best Practices for Managing and Measuring Processes for On-demand Computing, Applications and Data Centers in the Cloud with SLAs, EmereoPvt. Limited.
- 4. Mark I. Williams, A Quick Start Guide to Cloud Computing: Moving Your Business into the Cloud, Kogan Page, GreatBritan

Additional Reading:

- 1. Gautam Shroff, Enterprise Cloud Computing Technology Architecture Applications, Cambridge UniversityPress
- 2. Toby Velte, Anthony Velte, Robert Elsenpeter, Cloud Computing, A Practical Approach McGraw-Hill Osborne Media;
- 3. Chris Hay, Brian Prince, "Azure in Action" Manning Publications