CA834 CLOUD BASED E-LEARNING

UNIT I   Cloud Computing Essentials

Cloud Architecture – Cloud Storage – Advantages of Cloud Computing – Disadvantages o
Computing –Cloud Services -Software as a service -Platform as a service - Infrastructu
service.

UNIT II   Migrating into a Cloud

Introduction -The Cloud Service Offerings and Deployment Models - Challenges in the C
Broad Approaches to Migrating into the Cloud -Deciding on the Cloud Migration - The S
Step Model of Migration into a Cloud - Migration Risks and Mitigation.

UNIT III   Cloud service providers

Amazon EC2 (IaaS)- Amazon S3 (IaaS) – Google (SaaS, PaaS) - MS Azure (P
Salesforce.com (SaaS, PaaS)- Scaling a cloud infrastructure (IaaS).

UNIT IV   E-learning Principles

Definition – Varieties of e-learning – Components of e-learning : CBT,WBT - Virtual
rooms- Learner-led-e-learning – Facilitated e-learning – Instructor –led - e-learning - Embe
e-learning - Telementoring and e-coaching.

UNIT V   Cloud Computing for E-Learning

Cloud based E-Learning architecture - The Software as a Service Delivery Model for E-Learni
Cloud-based education E-learning strategy for instructors - Tools and examples for e-learnin
Location shifting tools - Time shifting tools - Interaction tools - Learning management too
Public cloud SaaS and PaaS tools.

TOTAL

References

1. Tim Mather, Subra Kumaraswamy, and Shahed Latif "Cloud Security and Privac
   Published by O'Reilly Media, Inc., First Edition, 2009.
2. Rajkumar Buyya, James Broberg, Andrzej Goscinski "Cloud Computing Principles a
   Paradigms"Published by A John Wiley & Sons, Inc., 2011
3. Haley Beard, Cloud Computing Best Practices for Managing and Measuring Processes f
   On-demand Computing, Applications and Data Centers in the Cloud with SLAs, Emer
   Pty Limited, July 2008.
4. E-Learning by Design,William Horton,Wiley publication 2006.
5. E-Learning:An Expression of the knowledge Economy, Gaurav chada, S.M.Nafay kumai
   Tata McGraw –Hill publication 2002.
6. E-Learning Tools and Technologies, William Horton , Katherine Horton, wiley publicatio
   2003.
7. http://www.ibm.com/developerworks/industry/library/ind-cloud-e-learning1/index.html
8. http://www.skillspark.ca/
9. http://www.slideshare.net/ssuser6e1ce5/e-learning-system-architecture-based-on-cloud-
   computing