CSCS 456 - Cloud Computing & its Security

UNIT I

Introduction : Introducing Cloud Computing, Grasping the Fundamentals, Discovering the Value of the Cloud for Business, Getting Inside the Cloud, Developing Your Cloud Strategy.

(12 hours)

UNIT II

Understanding the Nature of the Cloud : Seeing the Advantages of the Highly Scaled Data Center, Exploring the Technical Foundation for Scaling Computer Systems, Checking the Cloud's Workload Strategy, Managing Data, Discovering Private and Hybrid Clouds.

(12 hours)

UNIT III

Cloud Elements & its Security : Seeing Infrastructure as a Service, Exploring Platform as a Service, Using Software as a Service, Understanding Massively Scaled Applications and Business Processes, Setting Some Standards. Web Services Delivered from the Cloud, Building Cloud Networks, Federation, Presence, Identity, and Privacy in the Cloud, Security in the Cloud.

(12 hours)

Text Books:

(1). "Cloud Computing for Dummies", Judith Hurwitz, Robin Bloor, Marcia Kaufman and Dr. Fern Halper, Wiley Publishing, Inc., 2010.

(2). "Cloud Computing: A Practical Approach", Anthony T. Velte, Toby J. Velte, Robert Elsenpeter, McGraw-Hill, 2010.

(3). "Cloud Computing - Implementation, Management, and Security", John Rittinghouse, James Ransome, CRC Press, 2009.