Course Title	**System and Network Administration**
Course Code	**DI-323**
Credit Hours	3+1
Category	Domain Core
Prerequisite	CC-311: Operating Systems
Co-Requisite	None
Follow-up	None
Course Description	**Introduction**: System Administration (SA), SA Components, Server Environment (Microsoft and Linux), Reliable Products, Server Hardware Costing, Maintenance Contracts and Spare Parts, Maintaining Data Integrity, Client Server OS Configuration, Providing Remote Console Access. **Comparative Analysis of OS:** Important Attributes, Key Features, Pros and Cons. **Linux Installation and Verification**: Configuring Local Services and Managing Basic System Issues. Administer Users and Groups. **System and Network Management:** Software Management. Managing Network Services and Network Monitoring Tools. Boot Management and Process Management. IP Tables and Filtering. Securing Network Traffic. Advanced File Systems and Logs. Bash Shell Scripting. Configuring Servers (FTP, NFS, Samba, DHCP, DNS and Apache).
Text Book(s)	1. The Practice of System and Network Administration, Second Edition by Thomas Limoncelli, Christina Hogan and Strata Chalup, Addison-Wesley Professional; 2nd Edition (2007). ISBN-10: 0321492668. 2. Study guide for Practice of System and Network Administration by Thomas A. Limoncelli, Cram101; 2nd Edition (2011). ISBN-10: 1428851755. 3. Networking Systems Design and Development by Lee Chao, CRC Press; 1st Edition (December 21, 2009). ISBN-10: 142009159X (TB2).
Reference Material	1. Red Hat Enterprise Linux 6 Bible: Administering Enterprise Linux Systems by William von Hagen, 2011.