**Course Syllabus**

**Section 1 – (Lab Setup)**

* What is Virtual Box?
* Downloading and installing Virtual Box
* Creating first virtual machine
* Linux installation

**Section: 2 – (Shell Scripting Basics)**

* What is Kernel?
* What is a Shell?
* Shell Scripting?
* Type of Shells
* Starting a Shell
* How to Run a Shell Script

**Section: 3 – (Scripting Standards)**

* Naming Convention
* Script File Permissions
* Shell Script Format
* Sequence of Script Execution

**Section: 4 – (Basic Shell Scripts)**

* Creating 1st script
* Script to run basic tasks
* Defining variable
* Input/output script
* Conditions/If else statement scripts
* Case statement scripts
* For loop scripts
* Do-while scripts
* Exist Status
* Handouts

**Section: 5 – (Real Life Scripts)**

* Accessing data from files
* Check remote servers connectivity
* Script for scheduling and notification
* Script to delete old files
* Backup filesystem
* For loops scripts for file system – 1
* For loops scripts for file system – 2
* Copy files to remote hosts
* User directory assignment
* List of users logged in by date
* Central logging (rsyslog) script
* Script for user account management
* Disable inactive users
* Check process status and killing it
* Status on total number of files
* Script to create system inventory
* Getting online help
* Homework