**Lab Sheet – 01**

**Title:** Introduction to Packet Tracer, Putty and CISCO IOS

**Aims:**

- Getting familiar with Cisco Packet Tracer
- Identify the common components of a Network
- Getting the basics on Cisco IOS
- Getting familiar with connections (cables)
- Getting familiar with basic nodes (devices) configuration

**Tasks:**

- Download and Install Cisco Packet Tracer
- Identify the common network components in Packet Tracer
- Install nodes in the Packet Tracer Workspace
- Practice with node's properties
- Create a simple network
- Get access on nodes
- Try Cisco IOS basic commands
- Create a simple network
- Create a simple network with switch
- Connect multiple devices with switch

**Activities**

1. Download and install Cisco Packet Tracer
2. Getting familiar with common network components
   a. Network devices
   b. End devices
   c. Connections
3. Select PC from end devices tab and install it on workspace
4. Double click the PC and find out the properties and settings
5. Select Router from Network devices tab and install it on workspace
6. Double click the Router and find out the properties and settings
7. Click the router and get into config tab and go to the CLI tab and try following commands
   a. show version
   b. show terminal
   c. show ssh
   d. show clock
8. Navigate to router configuration mode
   a. enable
   b. configure terminal

Exercises

1.
    a. Create a simple network between 2 PCs with suitable connections
    b. Configure IP address to PCs
    c. Check connection between PCs
    d. Try to check connection using simulation mode
2.
    a. Create a simple network between 2 PCs with a switch
    b. Configure IP address to PCs
    c. Check connection between PCs
    d. Try to check connection using simulation mode