

**NSBM Green University**

Faculty of Computing

<Degree Program>

**Module Code & Name**

Module Lecturer: <Name>

**Assignment / Case Study <1>**

Student Name: <Include your Name>

Student ID: <NSBM ID>

Complete the given steps and answer the **questions in blue color** and take screenshots for **red color steps.**

**Guidelines for submission.**

Rename this file as follows.

* *NSBMstudentID***CNAssignment**
  + 35456CNAssignment
* Attach the screenshots and answer the questions in this file
* Submit the file as a **.pdf** format

Penalty: Not following the instructions (-20 marks)

Late Submissions:

* 1 day or less (-10 marks)
* 2 days (-20 marks)
* 3 days (-30 marks)
* More than four days = no marks

1. Create the following setup in Cisco Packet Tracer

A diagram of a computer network

AI-generated content may be incorrect.

1. Rename devices as follows: StudentNumber\_PC01, StudentNumber\_Router, StudentNumber\_Laptop1
2. Home Router configurations
   1. Configure DHCP
      1. IP range: 192.168.xx.100/24
      2. Number of IP s : 30
   2. Wireless
      1. **What are the available Wifi Frequency bands and compare each**
      2. Only enable 2.4 GHz
      3. Create following SSIDs
         1. Internal Users: NSBM\_StudentID\_NSBM
         2. Guests: GuestNSBM
      4. Security
         1. WPA personal
         2. Encryption : AES
      5. **Compare Security modes under 2.4 Ghz**
   3. Change default Admin password
   4. Log in to the router using one of the PCs.
3. Screen shots
   1. **Network diagram in Cisco Packet Tracer**
   2. **Router DHCP configurations**
   3. **Ping PC01 to Default Gateway**
   4. **Ping PC01 to PC02**
   5. **Ping PC01 to Laptop1**
   6. **Laptop >PC Wireless > Connect Tab**

A screenshot of a computer

AI-generated content may be incorrect.

* 1. **Router web interface access via a PC**