**UNIVERSITY OF MAKATI**

*J.P. Rizal Extension, West Rembo, Makati City*

**COLLEGE OF COMPUTER SCIENCE**

## Switch and Router,

## LABORATORY NO. 2

**Members:**

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**III-BCSAD**

**Objective:**

* Connect Switch and Router to PC’s (PC1 and PC2)
* Identify the cable that they use and their respective use.
* Configure the IP Address

**Background**

Create a simple network with two PCs using a switch, router and UTP CABLE (Crossover and Straight through) Ethernet LAN (Local Area Network) using two workstations.

**Set up network connections base on the network devices that was mention.**

1. Create a step by step procedure in establishing connections using switch and router.

The step by step procedure was done by connecting two workstations using a straight-through and crossover type cable to the router which was also used a switch since it is not connected to the internet. We then show the connectivity between the two workstations by pinging them on their specific addresses. The rest is shown on the video demonstration.

1. GUI and CLI configurations will be used.

The group used CMD as a command line interface to know the ip of each workstation by using the command /ipconfig.

1. Make sure for each step has an equivalent screenshot with descriptions.

The step by step was done in the video demonstration with descriptions.

1. Create a Table for each network device.

|  |  |
| --- | --- |
| **Device:** | Laptop (Workstation 1) |
| **Connection** | Using cross over cable |
| **Specs** | HP, i7 processor |

|  |  |
| --- | --- |
| **Device:** | Laptop (Workstation 2) |
| **Connection** | Using straight-through cable |
| **Specs** | ASUS, i5 processor |

|  |  |
| --- | --- |
| **Device:** | Router |
| **Connection** | Using straight-through cable & crossover cable from the two workstations |
| **Specs** | Basic router, provided by ISP. |

* Discuss the functions of a switch and a router.
* The difference between the two devices.
* Advantages and Disadvantages.

These three categories are defined and provided in the video demonstrations