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**Green University of Bangladesh**

**Department of Computer Science and Engineering (CSE)**

**Faculty of Sciences and Engineering**

**Semester: (Fall, Year:2022), B.Sc. in CSE (Day)**

**LAB PROJECT PROPOSAL**

**Course Title:** Computer Networking Lab

**Course Code:** CSE 312 **Section:** 202 D1

**Project Name: Campus Network Scenario**

**Student Details**

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**Submission Date : 10/11/2022**

**Course Teacher’s Name :** ***Ms. Tanpia Tasnim***

**[For Teachers use only: Don’t Write Anything inside this box]**

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| **Project Proposal Status**  **Marks: ………………………………… Signature: .....................**  **Comments: .............................................. Date: ..............................** |

1. **TITLE OF THE PROJECT PROPOSAL**

**Campus Network Scenario**

Introduction:

This Campus Network Scenario is about designing a hybrid topology of a network that is a Local Area Network for our university city campus in which various computers of different buildings are set up. So that they can interact and communicate with each other by sharing data.

1. **PROBLEM DOMAIN & MOTIVATIONS**

In this project, we will define a simulation of our university campus networks. The network has both wired and wireless connections. This will be less hassle and less expensive. Hence, the university campus network provides different type of services such as

* Connecting the user to the internet,
* Data sharing among students, teachers, and different university members.

1. **OBJECTIVES/AIMS**

The main objective of the proposed network is:

* To update the existing network.
* Also enhance its capabilities and increase the flexibility of the network.
* To provide good security.

1. **TOOLS & TECHNOLOGIES**

This is a simulation-based project. So, we will run the full simulation on the **Cisco Packet Tracer** software.

* **Cisco Packet Tracer 8.2 (64 bit):**
  + OS : Microsoft Windows 8.1, 10, 11 (64bit) or macOS 10.14 or newer.
  + CPU : amd64(x86-64) CPU
  + Ram : 4GB
  + Storage : 1.5GB
* **Cisco Packet Tracer 8.2 (32 bit):**
  + OS : Microsoft Windows 8.1, 10, 11 (32bit)
  + CPU : x86 compatible
  + Ram : 2GB
  + Storage : 1.5GB

1. **CONCLUSION**

In this project, we will design a University Network using Cisco Packet Tracer that uses a networking topology implemented using servers, routers, switches, and end devices in a multiple area network. we will cover all the necessary features that are required for a network to function properly.