**Brief Background of the Project**

NeetEasse Campus is a large University which has two campuses situated 40km apart. The staff and

students are distributed in 4 buildings: which include the facilities of BSIT/CS, HRM, Psychology Dept.

and Digital Art/Design. Each staff and students have access to computer laboratory.

**Project Requirements:**

1. Create a network topology with the main components to support the following:

a. Main Campus

i. Building A: Administrative staff in the department of management, HR, and

Finance. The admin staff pcs are distributed in the building offices and it’s

expected that they will share some networking resources (use VLAN). The Faculty of HRM is also situated in this building.

ii. Building B: Faculty of Psychology and Digital Art/Design

iii. Building C: Student’s Laboratory and IT Department. The IT department hosts

the University Web Server and other servers.

iv. There is also an email server hosted externally on the cloud.

b. Smaller Campus:

i. Faculty of BSIT/CS (staff and student’s lab are situated on separate floors)

2. Configure the core devices and few end devices to provide end to end connectivity and access to

the internal servers and the external server.

a. Each department/faculty is expected to be on its own separate IP network.

b. The switches should be configured with appropriate VLAN’s and security settings.

c. RIPv2 will be used to provide routing for the routers in the internal network and static

routing for the external server.

d. The devices in building A will be expected to acquire dynamic IP addresses from the

router based DHCP server.

**Tasks:**

**Task 1:** Your task is to plan, design and propose the network topology for NeetEasse University’s

network using CISCO Packet Tracer. (April 6, 2024, Saturday Class).

**Task 2:** Configure in Packet Tracer the network appropriate settings to achieve the connectivity and

functionalities specified in the requirements.

**Task 3:** Produce a report including evaluation on your proposed network design and critical appraisal on

your work. Included on your report, performance, scalability, reliability, and security of your proposed

network.