# **Department of Computer Science and Engineering Islamic University of Technology (IUT)** A subsidiary organ of OIC

# **Lab Report 04**

# CSE 4412: Data Communication and Networking Lab

## 

## **Name: Student ID: Section: Semester: Academic Year:**

**Date of Submission:**

### **Title:** Understanding the basics of Inter-VLAN communication using Router, L3 Switch along with basics of Static Routing

### **Objectives**:



### **Diagram of the experiment:**

(Provide screenshot of the final network topology. Make sure to label the network components.)

**TASK 1:**

**TASK 2:**

**TASK 3:**

### **Working Procedure:**

**(**Explain in brief how you completed the tasks. Provide necessary screenshots of used commands for each task.)

**TASK 1:**

**TASK 2:**

**TASK 3:**

### **Questions (Answer to the point)**:

* + - 1. Why do we need L3 Switches?

**Ans:**

* + - 1. What is the use router in Inter-Vlan Routing?

**Ans:**

* + - 1. What changes are needed while configuring VLANs using L3 switches instead of Router-on-a-stick approach?

**Ans:**

* + - 1. What is next-hop floating address?

**Ans:**

* + - 1. What is the disadvantage of static routing?

**Ans:**

### **Challenges (if any):**

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