# Operating Systems – SE 5th A

Fall 2025

# Lab 1 Plan: WSL2 Setup and Ubuntu Configuration

# Objective

The purpose of this lab is to introduce students to Windows Subsystem for Linux (WSL2) and guide them through the installation, setup, and configuration of Ubuntu. By the end of this lab, students should be able to run and use a Linux environment on Windows for development and operating system–related tasks.

## **Learning Outcomes**

After completing this lab, students will be able to:

- 1. Understand the concept and advantages of WSL2.
- 2. Install and enable WSL2 on Windows.
- 3. Install Ubuntu from Microsoft Store.
- 4. Configure Ubuntu environment (update, upgrade, user setup).
- 5. Run basic Linux commands in Ubuntu under WSL2.

#### Lab Activities

### Task 01: Installing WSL2 on Windows

Step 1: Open **PowerShell as Administrator**.

Step 2: Run command to enable WSL and Virtual Machine Platform:

```
wsl.exe --install -d Ubuntu-24.04
```

#### Task 02: Verifying setup on Windows

Step 1: Open Ubuntu 24.04 in Windows terminal or Ubuntu shell directly

Step 2: Create new user and password

Step 3: Run the following commands

```
sudo apt update
sudo apt upgrade
```

ask 03: Linux filesysten	n and directory structure
Step 1: Explore Linux filesys	
	(Linux) can access Windows file system under /mnt/c/.
	es in Windows and accessing them in Ubuntu.
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