Teknik Informatika
Institut Teknologi Sumatera

# Sistem Operasi (Judul mata Kuliah)

Judul Pertemuan


Martin Clinton Manullang
Program Studi Teknik Informatika
February 16, 2025

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# Formatting Examples

## Subtitle Example

This is an example of **bold text**, *italic text*, and `monospaced text`.

**Block Title**

This is a normal block with some dummy text.

**Alert Block**

This is an **alert** block showing important information.

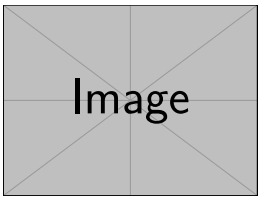
# Two Column Layout Example

**Left Column: Lists and Text**

- First item with *italics*.
- Second item with **bold**.
- Third item with `typewriter font`.

**Right Column: Table and Graphic**

| ID | Name | Value |
|---|---|---|
| 1 | Alpha | 10 |
| 2 | Beta | 20 |
| 3 | Gamma | 30 |



# Elaborated Table Example

Table: Dummy Data Table

| Category | Count | Percentage |
|---|---|---|
| Category A | 15 | 37.50% |
| Category B | 20 | 50.00% |
| Category C | 5 | 12.50% |

# Contents

# Python Code Examples

Sample Implementation

```python
    # This is a sample Python function
def calculate_factorial(n):
    """Calculate the factorial of a number"""
    if n == 0 or n == 1:
        return 1
    else:
        return n * calculate_factorial(n - 1)

# Example usage
number = 5
result = calculate_factorial(number)
print(f"Factorial of {number} is {result}")
```

# Inline Code Examples

## Code Listing Example

- Here's a sorting algorithm implementation:

```
def quick_sort(arr):
    if len(arr) <= 1: return arr
    pivot = arr[0]
    left = [x for x in arr[1:] if x < pivot]
    right = [x for x in arr[1:] if x >= pivot]
    return quick_sort(left) + [pivot] + quick_sort(right)
```

# Inline Code in Paragraphs

Text with Code Examples

When working with Python, you can create a list using square brackets like `my_list = [1, 2, 3]` or define a dictionary with `my_dict = {"key": "value"}`.

Function definitions are straightforward: `def greet(name): return f"Hello {name}"` can be used to create simple greeting functions.

For loops are common in Python: `for i in range(5): print(i)` will print numbers from 0 to 4.

# Description List Example

Terms and Definitions

**CPU** Central Processing Unit - The primary processor that executes instructions

**RAM** Random Access Memory - Temporary storage for running programs

**GPU** Graphics Processing Unit - Specialized processor for rendering graphics

**SSD** Solid State Drive - Fast storage device with no moving parts

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