**SIR SYED UNIVERSITY OF ENGINEERING & TECHNOLOGY**

**COMPUTER SCIENCE & INFORMATION TECHNOLOGY DEPARTMENT**

**Spring-2025**

**Introduction to Operating System (CS-222T)**

**Assignment # 1**

Semester: IV.  Batch: 2024F Section: **D**

Student’s Name: Roll#:

Total Marks: **03** Marks Obtained:

Due Date: 21/04/2025

| **CLO #** | **Course Learning Outcomes (CLOs)** | **PLO Mapping** | **Bloom’s Taxonomy** |
| --- | --- | --- | --- |
| CLO 1 | **Explain** fundamental operating system concepts such as processes, threads, CPU scheduling, deadlock. | PLO\_2  (Knowledge for solving  computing problem) | C2  (Understand) |

**Instructions:**

* **Attach this assignment page as front page and then attach your solved assignment.**
* **Write references of your complete questions at the end of assignment.**
* **Each student must write different questions for every scheduling algorithm. Similarities in questions will not be accepted.**

**Q1:** Solve any five questions based on the First Come First Serve (FCFS) scheduling algorithm with their complete tables. Calculate the average waiting time and average turnaround time.

**Q2:** Solve any five questions that focus on the Shortest Job First (SJF) Non-Preemptive and Preemptive scheduling algorithm with their complete tables. Calculate the average waiting time and average turnaround time.