

Vishwakarma Institute of Technology, Pune

Department of Computer Engineering

Semester II (2023-24)

Class: SY B

Course Coordinator: Dr. A. A. Agarkar

Course: Operating System

List of Tutorials

1. Know your Operating System.
2. Elaborate about the types of Operating System
3. Explain different architectures of Operating system
4. Write the solutions for following synchronization problems:
 - i. Producer Consumer
 - ii. Reader Writer
 - iii. Dining Philosopher
5. CPU Scheduling
 - i. Schedule the following processes using First come first serve scheduling and compute the waiting time:

Process ID	Burst Time
P1	24
P2	3
P3	3

- ii. Schedule the following processes using Shortest Job First (SJF) scheduling:

Process ID	Arrival Time	Burst Time
A	0	3
B	2	6
C	4	4
D	6	5
E	8	2

- iii. Scheduling the following processes using Round Robin scheduling where Time Quantum = 100ms

Process Name	Arrival Time (in ms)	Execution Time (in ms)
P0	0	250
P1	50	170
P2	130	75
P3	190	100
P4	210	130
P5	350	50

6. Solve following problems of deadlock concept. (Will be added)
7. Memory Management
8. Disk Scheduling
9. Input /Output organization
10. Record blocking