

S.No.	Lab Name	Class Name	Block	Faculty Incharge	Lab Technical Staff	Room Number
1	Operating System Lab	IV Year( IT-A)	GBS	Mr. Rahul Singh	Mr. Nivesh Bhardwaj	104

S.No.	Lab Name	Software	Hardware Configuration	Description
1	Operating System Lab	<ul style="list-style-type: none"> <li>• Windows 10</li> <li>• Ms Office</li> <li>• Turbo C++</li> <li>• Java</li> <li>• Python</li> <li>• Prolog</li> </ul>	Intel(R) Core(TM) i5-2400 CPU @ 2.70GHz	The objective of this lab is to discover the desktop computer's anatomy and basic operating system instructions in this lab. The first piece of software to be read from a hard drive or server and placed into memory (RAM) is the operating system.

Exp. No.	Name of Experiment
1	Study of hardware and software requirements of different operating systems (UNIX, LINUX, WINDOWS XP, WINDOWS7/8)
2	Write a C program for System calls of Operating system for Process management, File management and Input/output Systems calls(Fork, Getpid, Exit)
3	Write a C program to simulate the CPU scheduling algorithms to find turnaround time and waiting time for the following scheduling-FCFS
4	Write a C program to simulate the CPU scheduling algorithms to find turnaround time and waiting time for the following scheduling-SJF.
5	Write a C program to simulate the CPU scheduling algorithms to find turnaround time and waiting time for the following scheduling- PRIORITY BASED.
6	Write a C program to simulate the CPU scheduling algorithms to find turnaround time and waiting time for the following scheduling- Round Robin CPU Scheduling Algorithms.
7	Write a C program to simulate the CPU scheduling algorithms to find turnaround time and waiting time for the following scheduling- Multilevel.
8	WAP for Conversion of resource allocation graph (RAG) to wait for graph (WFG) for each type of method used for storing graph.
9	Write a C program to simulate the MVT and MFT memory management techniques.
10	Write a C program to simulate the contiguous memory allocation First, worst, best fit
11	Write a C program to simulate the contiguous memory allocation First, worst, best fit
12	Write a program to simulate FIFO page replacement algorithm
13	Write a program to simulate LRU page replacement algorithm
14	Write a program to simulate OPTIMAL page replacement algorithm
15	Write a program to Implement the solution for Bounded Buffer (producer-consumer) problem using inter process communication techniques-Semaphores