Syllabus of OS Lab

Computer Engineering Department 2th class

Course I		
NO.	**Experiment Name**	**Objective**
1	OOP Programming Review	To write a C++ program to find the value of a number raised to its power that demonstrates a function using call by value and implement the concept of Call by Address.
2	Class	To get a clear understanding of how to create a new data type using class.
3	Basic File Operation	To understand how to deal with files using C++ codes.
4	Process Management	To understand how to deal with processes using Windows.h library C++
5	Threads and Multithreading	To understand how to deal with threads using C++. To examine issues related to multithreaded programming.
6	CPU Scheduling Algorithms	FCFS, SJF, Priority and Round Robin
	FCFS	Write a program to implement FCFS CPU Scheduling algorithm with arrival time.
	SJF	To write a C++ program that implement SJF CPU Scheduling algorithm.
	Priority	To write a program that simulate Priority CPU Scheduling algorithm.
	Round Robin	Write a program to implement Round Robin CPU Scheduling algorithm.

Course II		
NO.	**Experiment Name**	**Objective**
1	Deadlock	To write a C++ program for implementing deadlock avoidance and prevention using Safety Algorithm and Banker's Algorithm.
2	Memory Management: Fixed Partitioning	Implementation of Memory Management technique: Fixed Partitioning in C++ for both Fixed partitioning schemes: Equal-size partitions and Unequal-size partitions.
3	Memory Management: Dynamic Partitioning	To Implement Dynamic Partitioning Memory Management Technique in C++ for three placement algorithms, First-fit, Best-fit, and Worst-fit.
4	Memory Management: Paging	To implement Paging Memory Management Technique in C++.
5	Page Replacement Algorithm: FIFO	To Simulate FIFO page replacement algorithm.
6	Page Replacement Algorithm: LRU	To Simulate LRU page replacement algorithm.