CSC 251 - Operating Systems Lab Outlines

General Information

Course Number	CSC-251L					
Credit Hours	(Theory Credit Hour = 0, Lab Credit Hour =1)					
Prerequisite	None					
Course Coordinator	Abbas Mehdi					

Course Objectives

The main objectives of the course are to give students the basic concepts of an operating system, types of an operating system, computer system structures, process management, CPU Scheduling, Process synchronization, Deadlock, Memory management and Virtual memory management. Furthermore the students will learn the operating system design algorithms often based on those used in existing commercial operating systems. Our aim is to present these concepts and algorithms in general setting that are not tied to one particular operating system.

Catalog Description

CSC-251 L

Course Content

Lab 01: Installation and Linux Commands

Lab 02: Directories & Files permission and c programs basics

Lab 03: Script Programming of Shell

Lab 04: More on Script Programming of Shell

Lab 05: System Calls

Lab 06: Process

Lab 07: Pipes

Lab 08: Threads

Lab 09: Implicit Threading using OpenMp

Lab 10: Synchronization in threads

Course Learning Outcomes

		Course Learning Outcomes (CLO)
		Develop an understanding of minimum functionality of operating system
1		Develop all understanding of minimum functionality of operating system
2	, ,	Understand the role of critical components like initialization, IVT, system call table, process manager, and file system in operating system

CLO-SO Map

						SC) IDs					
CLO ID	GA 1	GA 2	GA 3	GA 4	GA 5	GA 6	GA7	GA 8	GA 9	GA 10	GA 11	GA 12
CLO 1	1	0	0	0	1	0	0	0	0	0	0	0
CLO 2	1	0	0	0	1	0	0	0	0	0	0	0

Approvals

•	11pp1 o vans					
	Prepared By	Abbas Mehdi				
	Updated By	Abbas Mehdi				
	Approved By	Not Specified				
	Last Update	20/09/2022				