Republic of Iraq
The Ministry of Higher Education
& Scientific Research

University: Anbar
College: CS & IT
Department: computer science
Stage: 4th
Instructor name:
Academic status:
Qualification:
Place of work: Ar Ramadi

Course Weekly Outline

Course Name : Operating System 2

Course Instructor					
E-mail					
Title					
Course Coordinator					
Course Objective	To present operating systems objectives, concepts, structure and mechanisms. To develop students practical knowledge of operating systems by means of advanced use and system programming.				
Course Description	(1) Memory Managment: Fixed Partitions, Variable Partitions, Virtual Memory, Paging, Page Replacment Algoritms, Segmentation; (2) Input/Output Managment; (3) Operating Systems Practice: Linux Operating System, Linux System Programming, Win32 System Programming.				
Textbook	-Petrson, Operating System Concepts, Prentice Hall				
References	-Tanenbaum, Andrew S. Modern Operating Systems. Prentice Hall. -Hantelmann, Fred. Linux Start-up Guide. Springer. -Kernighan, Brian W. e Ritchie, Dennis M. The C Programming Language (ANSI C). Prentice-Hall. -Robbins, Kay A. Practical UNIX Programming. A Guide to Concurrency, Communication, and Multithreading. Prentice-Hall.				
Course Assessments	TermTests	Laboratory	Quizzes	Project	Final Exam
	C1=15% C2=15%	10%	10%		50%
General Notes					

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Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Asynchronous Concurrent Processes		
2		Critical section, semaphores, monitors		
3		Memory Management, strategies, allocation		
4		Multiple Partition allocation (MFT, MVT)		
5		Placement, Fragmentation,		
6		Paging method		
7		Segmentation method		
8		Virtual memory, Replacement algorithms		
9		Thrashing, Working set, locality		
10		Disk scheduling algorithm		
11		Caching and Intro to File Systems		
12		Security and the File System		
13		Authentication and Security		
14		File System Implementation		
15		File System Implementation - Performance		
16		Distributed and Networking		

Instructor Signature: **Dean Signature:**