Course Description Form



Course Description

.1 Educational institution

The student must Inspire the course characteristics and expected learning outcomes of the students. Requiring This course description provides a	brief overview.	
be able to achieve the learning opportunities available. This must be linked to a description of whether he has made the most of the opportunities available.	Our	
	program prov	er.

Shatt al - Arab University College

	Computer science	.2 Scientific Department/Center	
	Operating systems	.3 Course Name/Code	
	My presence	4. Available forms of attendance	
	annual	.5 Semester/Year	
	60	6. Number of study hours (total)	
	27/9/2024	.7 Date this description was prepared	
		8. Course objectives	
Enabling	ng fourth-year students, both morning and evening studies, to understand the basics of different operating systems, their structure and differences		

			9. Course outcomes, tea	aching, learning and asses	
A- Cognitive objectives					
	A-1 To describe the basic organization of computer systems				
		A-2 To provide a	a grand tour of the main co	mponents of operating sys	stems
		A-3 To give an overvie	w of many types of compu	ting environments	
		A-4 To explore m	nany open source operating	g systems	
				A-5 Men	nory Management
				A-6 Operat	tions Management
			B - Course spe	ecific skill objectives	
			B1	- What do operating syste	ms do?
				B2 - Operating System Pr	ocesses
			B3 - Compute	er System Storage Manag	ement
				B-4 Operating System St	ructure
				Teaching and le	arning methods,
				theoretical and scie	entific lectures
				Evalı	uation methods
	Final Exam	The project	Daily exams	laboratory	semester
	60	-	3	5	12
		C-2 To provide a o	C-1 To describe the basic of comprehensive tour of the lew of many types of computy open source operating s	main components of operating environments	ystems
		C-2 To provide a o	comprehensive tour of the	organization of computer s main components of opera uting environments systems	ystems
		C-2 To provide a o	comprehensive tour of the	organization of computer s main components of opera uting environments systems	ystems ating systems. earning methods

Final Exam	The project	Daily exams	laboratory	semester
60	-	3	5	12

D - General and transferable skills (other skills related to employability and personal development).

D-1 Operating System Structure

D-2 Memory Management

D-3 Storage Management

D-4 Operations Management

			10	. Course structure
Teaching method Evaluation method	Unit name/topic	Required learning outcomes	watches	The week
	cd: Change directory or display current directory Delete: path + cls The window.	Operating System Definition + Computer System Structure + Computer Startup	2	1
	Storage Structure Directory: Displays a list of the contents of the current directory.	Common functions of interrupts + Interrupt handling + I/O structure + Storage structure directory: Display a list of the contents of the current directory.	2	2
	Access structure type: Displays the contents of a text file. Assoc: Displays or modifies filename extension associations. attrib: Displays or changes file attributes.	Storage device hierarchy + direct memory	2	3
	Call a system interface: To call a batch program file from another file. chkdsk: Checks the disk and displays a status report. chkntfs: Displays or modifies the disk check at startup.	Operating System Services	2	4
	Color: Sets the text and background of comp: Compares the contents of two files or groups of files. Copy: To copy one or more files to another location. See also:	olors. System Calls + Types of System Calls	2	5
	Date: Displays or sets the computer's date. See also: time Delete (or erase): Deletes a file. One or more.	OS Structure + OS Early architecture (simple monolithic) + multi-layer approach architecture for the operating system	2	6
	md (or mkdir): Creates a directory.	Operating system structure Microkernel + OS module architecture + OS virtual machine architecture	2	7
	rd (or rmdir): Removes a director	Concept of process + process in memory + process condition	2	8
	Time: Displays or sets the computer's time. See also: Date	process control block)PCB)+ CPU swap from Processing + Context Switching	2	9
	Tree: Graphically displays the structure of	Process scheduling + representation		10

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	The directory for the drive or directory	The process Scheduling + Process Creation	2	
	xcopy: Copy files and directory trees. See also: copy	End process + cooperating processes	2	11
	config: Defragment one or more files (instead of the entire drive).	Producer-consumer problem	2	12
	du: Displays disk usage for selected files or directories	threads	2	13
	Chains: Find all chains with a specified minimum length.	One topic	2	14
	whois: Find domain ownership information.	multi-threaded applications	2	15
	help: Display a list of commands or help about a command.	Multiple models	2	16
	LS	First come, first served (FCFS) S	chedule 2-1	17
	CD	Mission short- ^{A-} • Scheduling 2)SJF(and and a	2	18
	mkdir	Non-proactive SJF+ SJF Proactive	2	19
	cat	• Round Robin (RR)	2	20
	ср	Dead End + Dead End Description + Ways to Deal with Dead End	2	21
	mv	Prevent stagnation + Avoid stagnation	2	22
	rm *	Uncovering the stalemate + recovering from the stalemate	2	23
	Info	Swap + Allocate Contiguous Memory	2	24
	whatis	fragmentation + migration	2	25
	less	Page table structure	2	26
	less - N	Base and boundary records + Device address protection	2	27
	rm -i *	Mass Storage n Architecture Overview + Disk Architecture + Disk Attachme	2 ent	28
	rm -rf	Disk Scheduling + Disk Manageme	2 ent	29
	cat - n	Switch Space Management + Structure RAID+ stable storage implement	2 ation	30

	.11 Infrastructure
Operating System Concepts 8th Edition	Required prescribed books -1
Operating System Principles Paperback – January 1, 2004)Main Sources References -2
Operating Systems: Three Easy Pieces Remzi Arpaci-Dusseau	Recommended references A((books) Scientific journals, reports,
	b) Electronic references, websites

12. Curriculum Development Plan

Modern mobile devices A study can be added on the operating systems used in -1

2- The course requires supporting sources.

Dean of the College

Head of Department

Subject lecturer

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