

جمهورية العراق
وزارة التعليم العالي والبحث العلمي
جهاز الاشراف والتقويم العلمي



الجامعة: الكوفة
الكلية: التربية المختلطة
القسم: الحاسبات
المرحلة: الرابعة
اسم المحاضر الثلاثي: زين العابدين عبد الصمد رشيد
اللقب العلمي: مدرس مساعد
المؤهل العلمي: ماجستير
مكان العمل: كلية التربية

جدول الدروس الاسبوعي

زين العابدين عبد الصمد رشيد					الاسم
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انظمة تشغيل					اسم المادة
سنوي					مقرر الفصل
تقديم مفهوم عام عن مكونات نظام التشغيل شرح تفصيلي عن العلاقة ما بين مكونات الحاسوب ونظم التشغيل					اهداف المادة
تعتبر مادة انظمة التشغيل من المواد الاساسية للمرحلة الرابعة لعلوم الحاسوب					التفاصيل الاساسية للمادة
لا يوجد كتاب منهجي					الكتب المنهجية
Operating System Concepts – (6th Edition, Silberschatz, Galvin and Gagne, 2003)					المصادر الخارجية
الامتحان النهائي	المشروع	الامتحانات اليومية	المختبر	الفصل الدراسي	تقديرات الفصل
%50	-	%10	%10	%30	
					معلومات اضافية

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جدول الدروس الاسبوعي

الملاحظات	المادة العلمية	المادة النظرية	التاريخ	الاسبوع
	Introduction to programing	Introduction to operating system Simple batch system, Personal computer systems		1
	Algorithm time sharing system	Multiprogramming batch systems. time sharing system, parallel systems and real time systems.		2
		Eiyad		3
	CPU protection	Computer system operating i/o structure		4
	memory protection algorithm	Storage structure and hierarchy. hardware protection and general systems architecture		5
	File management algorithm	System components(main memory management, secondary storage, file management, protection system, networking and command interpreter system)		6
	File management algorithm(search)	operation systems services, system calls		7
	File management algorithm(deletion)	System programs, system structure and virtual machine		8
	File management algorithm(addition)	System design and implementation system generation		9
	Design a process creation algorithm	Process concept Process scheduling and operation on process Cooperating processes Interposes communication		10
	Development algorithm with memory location	Memory device characteristics		11
	Function for (Add and delete process)	Cooperating processes		12

	Implement the algorithm	Interposes communication		13
	Design criteria scheduling algorithm	Basic concepts , Scheduling criteria		14
	Design FIFO algorithm	Scheduling algorithms		15
	Design SJF algorithm	Multiple processor scheduling		16
Half-year Break	Half-year Break			
	Design priority algorithm	Real time scheduling Algorithm evaluation		17
	Design primitive priority algorithm	Process synchronization		18
	Design primitive SJF algorithm	The critical section problem		19
	Design R.R algorithm	Semaphores and classical problems of synchronization		20
	Design M.L. feedback algorithm	Critical regions Monitors and automatic transactions		21
	DL.detected algorithm	Dead locks ,system model and dead lock characterization		22
	DL .prevent algorithm	Method of hand link deadlocks Dead lock prevention		23
	DL. avoidance algorithm	Dead lock avoidance Dead lock detection		24
	DL. recovery algorithm	Recovery from dead lock and combined approach to deadlock handling		25
	memory space algorithm	Memory management ,logical and physical address space		26
	Memory allocation	Swapping ,contiguous allocation and paging		27
	Memory segmentation	Segmentation with paging		28
	Memory segmentation continue	Virtual memory		29
	page replacement algorithms	Demand paging ,page		30

		replacement, page replacement algorithms	
	Frame allocation algorithm	Allocation of frames	31
	Practical exam	thrashing and demand segmentation	32

توقيع العميد :

توقيع الاستاذ :

Republic of Iraq
The Ministry of Higher Education
& Scientific Research



University:alkoufa
College:college of education
Department:computer science
Stage:4th
Lecturer name:Zain alabideen Abdual samad Rashedd
Academic Status:Assistant lecturer
Qualification:Msc
Place of work:college of education

Course Weekly Outline

Course Instructor	Zain alabideenAbdualsamad Rasheed
E_mail	Zain9999@live.com
Title	Operating systems
Course Coordinator	year
Course Objective	<ul style="list-style-type: none"> • To provide a general explanation of the component of operating systems • To provide the general organization of the computer systems and the relation between the computer structure and operating systems.
Course Description	Operating systems are essential part of any computer system. Therefore, a course in operating systems is an essential part of any computer science education. The fundamental concepts of operating systems will be presented in this course.(Operating system overview ,Main frame systems, Multiprocessor systems , Distributed systems ,Computing environment , operating system structure operating system services....)
Textbook	Non text book recently
	Operating System Concepts (6th Edition, Silberschatz, Galvin and Gagne, 2003) Operating System Concepts (Silberschatz and galvin,1999)

References					
Course Assessment	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As (30%)	As (10%)	As (10%)	----	As (50%)
General Notes	<p>In practical part students will be achieve a fundamental concept of most algorithms related to theoperating system. They will design simulation program for these algorithms and apply it under computer for understanding purpose.</p>				

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University:Alkoufa
College:Education
Department:computer science
Stage:4th
Lecturer name:Zain alabideen Abdual
samad Rashedd
Academic Status:assistant lecturer
Qualification:
Place of work:college of education

Course weekly Outline

week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Introduction to operating system Simple batch system, Personal computer systems	Introduction to programing	
2		Multiprogramming batch systems. time sharing system, parallel systems and real time systems.	Algorithm time sharing system	
3		Eiyad		
4		Computer system operating i/o structure	CPU protection	
5		Storage structure and hierarchy. hardware protection and general systems architecture	memory protection algorithm	
6		System components(main memory management, secondary storage, file management, protection	File management algorithm	

		system, networking and command interpreter system)		
7		operation systems services, system calls	File management algorithm(search)	
8		System programs, system structure and virtual machine	File management algorithm(deletion)	
9		System design and implementation system generation	File management algorithm(addition)	
10		Process concept Process scheduling and operation on process Cooperating processes Interposes communication	Design a process creation algorithm	
11		Memory device characteristics	Development algorithm with memory location	
12		Cooperating processes	Function for (Add and delete process)	
13		Interposes communication	Implement the algorithm	
14		Basic concepts , Scheduling criteria	Design criteria scheduling algorithm	
15		Scheduling algorithms	Design FIFO algorithm	
16		Multiple processor scheduling	Design SJF algorithm	
Half-year Break				
17		Real time scheduling Algorithm evaluation	Design priority algorithm	
18		Process synchronization	Design primitive priority algorithm	
19		The critical section problem	Design primitive SJF algorithm	
20		Semaphores and classical problems of synchronization	Design R.R algorithm	
21		Critical regions Monitors and automatic transactions	Design M.L.feedback algorithm	
22		Dead locks ,system model and dead lock characterization	DL.detectedalgorithm	
23		Method of hand link deadlocks Dead lock prevention	DL.preventalgorithm	
24		Dead lock avoidance Dead lock detection	DL.avoidance algorithm	

25		Recovery from dead lock and combined approach to deadlock handling	DL.recoveryalgorithm	
26		Memory management ,logical and physical address space	memory spacealgorithm	
27		Swapping ,contiguous allocation and paging	Memory allocation	
28		Segmentation with paging	Memory segmentation	
29		Virtual memory	Memory segmentation continue	
30		Demand paging ,page replacement, page replacement algorithms	page replacement algorithms	
31		Allocation of frames	Frame allocation algorithm	
32		thrashing and demand segmentation	Practical exam	

Instructor Signature:

Dean Signature: