



Course Weekly Outline

Course Instructor	Eman shaker				
E_mail	moonyiq@yahoo.com				
Title	Secure Operating system				
Course Coordinator	Type here the came of course coordinator				
Course Objective	Operating system(os)are an essential part of any computer system, So this course explains what os are, what they do, and how they are designed and constructed .protection and security for operating systems are explained in details.				
Course Description	<u>OS overview: computer system structures and operating system structure.</u> <u>Process management: processes, threads, cpu scheduling,</u> <u>Protection and security for os</u> <u>Deadlocks memory managements</u>				
Textbook	Operating system concepts- 7 th Edition by : sillberschats A., Galvin p. and Gagne G; 2005				
References	Type here the reference (title,author,edition,publisher,year)				
Course Assessment	Term Tests	Laboratory	Quizzes	Project	Final Exam
	(30%)	(10%)	(10%)	----	(50%)
General Notes					



Course weekly Outline

week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	2014/09/28	Introduction what is an operating system?		
2	2014/10/05	عطلة عيد الاضحى		
3	2014/10/12	Operating system operations: (dual mode operation and timer)		
4	2014/10/19	Batch systems, multiprogramming, time-sharing system, Real-time system , multimedia a system, handheld systems		
5	2014/10/26	Operatig system services User operating system interface System calls, types of system calls System programs		
6	2014/11/2	Operating system structures Simple structure, layered approach Microkernels, modules		
7	2014/11/9	Process concept ,Process schedulling		
8	2014/11/16	Interprocess communication , CPU scheduling, basic concepts, scheduling criteria		
9	2014/11/23	Scheduling algorithms multilevel queue scheduling, multilevel queue scheduling		
10	2014/11/30	Goals of protection, principles of protection and domain of protection		
11	2014/12/07	عطلة		
12	2014/12/14	Goals of protection, principles of protection and domain of protection control		
13	2014/12/21	Access control		
14	2014/12/28	Access control		
15	2015/1/04	quiz		
16	2015/1/11			
Half-year Break				
17	2015/2/	Unix examples for operating		

		system protection		
18	2015/2/15	Deadlocks, system models, deadlock characteristics		
19	2015/2/22	Method for handling deadlock, deadlock prevention, deadlock avoidance, deadlock detection		
20	2015/3/1	Method of handling deadlocks, recovery from deadlock		
21	2015/3/8	Method of handling deadlocks, recovery from deadlock		
22	2015/3/15	Security problems, program threats, system and network threats		
23	2015/3/22	Implementation of security defences		
24	2015/3/29	امتحان الفصل الثاني		
25	2015/4/5	Firewalls to protect system and network		
26	2015/4/12	Windows XP examples of operating system security		
27	2015/4/19	Memory management background, swapping memory allocation		
28	2015/4/26	Memory management paging segmentation		
29	2015/5/3	Virtual memory demand paging		
30	2015/5/10	Page replacement algorithm		
31	2015/5/17	Page replacement algorithm		
32	2015/5/24			

Instructor Signature:

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