Republic of Iraq
The Ministry of Higher Education & Scientific Research
2024-2023

Flow up of implementation syllabus

University: Thi - Qar
College: Pure science
Department: Computer Science
Stage: Four
Lecturer name: Nehad Gassab
Academic Status: Lecturer
Qualification: PhD
Place of work:

Course Instructor	Nehad Gassab Mohammed				
E_mail	Nihadghasab.comp@utq.edu.iq				
Title	Operating Systems				
Course Coordinator	Annual				
Course Objective	Providing the student with basic and general information on the importance of operating systems in supporting the physical entities of computers and the operation of various application programs To identify the most important algorithms and theories involved in the design of operating systems, as well as to identify the most important problems that occur in the operation of computers and how to manage various available sources, such as basic and secondary memory, processor time, etc.				
Course Description	1- knowledge of how software entities and computer application systems work. 2- knowledge of how to solve the various problems that a user may face in operating different types of computer equipment. 3- Understanding how to organize and operate programs in various digital devices such as PC, IPHON 4- Designing and implementing various algorithms used in the management of computer sources. 5- The ability to identify different characteristics and advantages of new operating systems presented by various software producers.				
Textbook	1- Operating System concepts ABRAHAM SILBERSCHATZ 2011 John Willey & Sons 2-Introduction to Operating System Design and Implementation				
Course Assessment	Term Tests	Laboratory	Quizzes	Project	Final Exam
	30	15	5	-	50

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Course weekly Outline

week	Date		Lab. Experiment Assignments	Notes
1	17/9/2023	Introduction to operating systems	Windows operating system	
2	24/9/2023	Types of operating systems continued	DOS command line	
3	01/10/2023	Continued to complement types of operating systems	Continued with Command	
4	08/10/2023	Functions of operating	Linux operating system	
5	15/10/2023	System calls	Linux Environment	
6	22/10/2023	System Programs	Continue learning Linux operating system	
7	29/10/2023	System Structure	Linux command line	
8	05/11/2023	**Processes**	Continue learning Linux operating system	
9	12/11/2023	Types of Processes Independent and collaborative process	Continue learning Linux operating system.	
10	19/11/2023	Threads	Continue learning Linux operating system.	
11	26/11/2023	CPU Scheduling, Concepts and Scheduling Criteria	Comparison of Windows and Linux systems	
12	03/12/2023	Scheduling algorithms FCFS SJF + priority	FCFS algorithm	
13	10/12/2023	Algorithms R.R + M.L.F.B.Q	SJF Algorithm	
14	17/12/2023	Exercises.	Priority Algorithm	
15	24/1/2023	**Exams**		
16	31/1/2023	**Exams**		

Half-year Break

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17	**28/1/2024**	Deadlock	RR algorithm	
18	**04/2/2024**	Solve Deadlock Problems	Comparison among the algorithms	
19	**11/2/2024**	Memory management Logical & physical addresses	Continue comparing among the algorithms	
20	**18/2/2024**			
21	**25/2/2024**			
22	**03/3/2024**			
23	**10/3/2024**			
24	**17/3/2024**			
25	**24/3/2024**			
26	**31/3/2024**			
27	**07/4/2024**	Memory management Paging and Structure of the page table	Bankers Algorithm	
28	**14/4/2024**	Memory management Segmentation and its table structure	Deadlock detection Algorithm	
29	**21/4/2024**	Types of allocation		
30	**28/4/2024**	Types of address		
31	**٠٥/5/2024**	Virtual Memory		
32	**١٢/6/2024**	**Exams**		

تؤيد اللجنة العلمية مطابقة الخطة التدريسية لمفردات منهج المادة الدراسية

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2024-2023

Flow up of implementation syllabus

University:
College:
Department:
Stage:
Lecturer name:
Academic Status:
Qualification:
Place of work:

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Instructor Signature(Lab.)

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Instructor Signature(Theoretical)

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1st Scientific committee member

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2nd Scientific committee member

.....

3rd Scientific committee member

.....

Head of Scientific committee

.....

Dean

ملاحظة: أعدت الاستمارة أستنادا الى كتاب وزارة التعليم العالي والبحث العلمي، جهاز الاشراف والتقويم العلمي، دائرة ضمان الجودة والاعتماد الاكاديمي، قسم تقويم الاداء ..... ج د ت / ١٨٦٠ في تاريخ ٠٢/ ١٠/ ٢٠١٤