

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Republic of Iraq
The Ministry Of Higher Education
& Scientific Research



University: Baghdad
College: Science for Women
Department: Computer Science
Stage: Second
Lecturer name: Dr. Abbood K
Jassim
Qualification: lecture

Syllabus Form

Instructor Name	Abbood Kirebut Jassim				
E-mail	Ramz1515@yahoo.com				
Course Title	Data Structures				
Course Coordinator					
Course Objectives	Study the implementation of data structure algorithms				
Course Description	Represent the data structure algorithms with application				
Textbook	"Principles of Data Structures using C and C++", Vinu V Das 2006.				
References	1-Introduction to Data Structure with application", Gean_Paul " Trembly, paul G Soreenson 2000. 2 Principles of Data Structures using C and C++", Vinu V Das 2006" 3-"an introduction to data structures with application"" , Gean_Paul Tremblay, Paul G. Soreenson.				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As(25%)	As(15%)		-	As(60%)
General Notes	Type here general notes regarding the course				

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Course Weekly Outline

Week	Date	Topes Covered	Lab. Experiment Assignments	Notes
17		Introduction to data structure Algorithm Structure programming		
18		Arrays, Vectors, Files and record String	Some Arrays and string Application	
19		Algorithm for Stack Operation Stack Implementation Stack Using Arrays	Program on STACK application	
20		Application of Stack Convert Infix to Postfix Expression Evaluation Postfix Expression Recursive Function	Program on STACK application	
21		Algorithm for Queue Operation Application of Queues Circular Queues	Program on Queue and circular Queue function	
22		Representation of Link List Operation on Link List Types of Link List Single Link List	Program on Link list data structures	
23		Double Link List Stack using Link List Queue using Link List	Program on Double linked list and stack, queue as link list data structures	
24		Basic Terminologies Binary Tree Representation of Binary Tree	Program on Binary tree	
25		Operation on Binary Tree Traversing on Binary Tree Expression Tree	Program on Tree traversing	
26		Complexity of Sorting Algorithm Selection Sort Insertion Sort Bubble Sort	Program on bubble, Selection , Bubble sorting	
27		Quick Sort Shell Sort	Program on Quick Sort and Shell Sort	

28		Merge Sort Radix Sort	Program on Merge Sort and Radix Sort	
29		Linear or Sequential Searching Binary Searching	Program on Searching	
30		Hashing	Program hashing	
31		Sequential File Direct File Index Sequential	Program on files	
32		Introduction to data structure Algorithm Structure programming	Some Arrays and string Application	

Instructor Signature:

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