

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Republic of Iraq
The Ministry Of Higher Education
& Scientific Research



University: Diyala
College: Engineering
Department: Computer
Stage: Second
Lecturer name: Tafer taha
Qualification: master
Place of work: Computer Dept.

Course Instructor	Tafer taha				
E-mail					
Title	Data Structure				
Course Coordinator	Tafer taha				
Course Objective	Introduction, Array Concept, List, Stack and Queue, Link Structures Graph and Tree, & Sorting				
Course Description	Data Structures, Algorithms, and Programming Style Using C by James F. Korsh and Leonard J. Garrett				
Textbook	Data Structures, Algorithms, and Programming Style Using Pascal language by Essam Al-Saffar & Programming Basics by Pascal Programming Language, by N.K. Al- Abady				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As(۳۰%)	As(۱۰%)	As(۱۰%)	-	As(۵۰%)
General Notes					

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Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
١	٢٣/٠٩/٢٠١٤	١-١ Data Structures Definition ١-٢ Types of Data Structures ١-٣ Selection of Data		
٢	٣٠/٠٩/٢٠١٤	٢-١ Array Concept ٢-٢ Representation of one- Dimensional Array		
٣	٠٧/١٠/٢٠١٤	٢-٣ Representation of Two-Dimensional Array ٢-٣-١ Row –Wise ٢-٣-٢ Column -Wise.		
٤	١٤/١٠/٢٠١٤	٢-٤ Representation of Three and Four -Dimensional Array		
٥	٢١/١٠/٢٠١٤	٣.١ Linear List ٣.٢ Types of Linear List ٣.٣ Stack		
٦	٢٨/١٠/٢٠١٤	٣.٤ Array Representation of Stack ٣.٥ Stack Algorithms ٣.٦ Stack Subprogram		
٧	٠٤/١١/٢٠١٤	٣.٧ Record Representation		

		<p>૩.૮ Stack Application.</p> <p>૩.૯ Queue</p>		
૮	૧૧/૧૧/૨૦૧૪	<p>૩.૧૦ Array Representation of Queue</p> <p>૩-૧૧ Queue's Algorithms</p>		
૯	૧૮/૧૧/૨૦૧૪	<p>૩-૧૨ Queue's Subprograms</p> <p>૩-૧૩ Record Representation of Queue's</p>		
૧૦	૨૦/૧૧/૨૦૧૪	૩-૧૪ Queue Applications		
૧૧	૦૨/૧૨/૨૦૧૪	૩-૧૦ Circuit Queue (CQ)		
૧૨	૦૯/૧૨/૨૦૧૪	૩-૧૬ Double Ended Queue		
૧૩	૧૬/૧૨/૨૦૧૪	<p>૪-૧ Storage Allocation</p> <p>૪-૨ Sequential Storage Allocation</p>		
૧૪	૨૩/૧૨/૨૦૧૪	૪-૩ Dynamic Storage Allocation		
૧૦	૩૦/૧૨/૨૦૧૪	૪-૪ Pointers		
૧૬	૦૬/૦૧/૨૦૧૦	Term Exam		
Half – year break				
૧૭	૧૧/૦૨/૨૦૧૦	<p>૪-૦ Linked List</p> <p>૪-૬ Linked Stack</p>		
૧૮	૨૪/૦૨/૨૦૧૦	<p>૪-૧ Linked Queue</p> <p>૪-૮ Circular Linked List</p> <p>૪.૯ Double linked List</p>		
૧૯	૦૩/૦૩/૨૦૧૦	<p>૦-૧ Graph</p> <p>૦-૨ Tree structure</p>		
૨૦	૧૦/૦૩/૨૦૧૦	<p>૦-૩ Binary Tree</p> <p>૦-૪ Other Types Tree</p>		
૨૧	૧૧/૦૩/૨૦૧૦	૦-૦ Tree Traversing		
૨૨	૨૪/૦૩/૨૦૧૦	૦-૬ Trees Representation		
૨૩	૩૧/૦૩/૨૦૧૦	૦-૧ General Tree		

٢٤	٠٧/٠٤/٢٠١٥	٥-٨ Binary Tree		
٢٥	١٤/٠٤/٢٠١٥	٥-٩ Representation of Arithmetic Expression using Binary Tree		
٢٦	٢١/٠٤/٢٠١٥	٥-١٠ Tree Transformation		
٢٧	٢٨/٠٤/٢٠١٥	٥-١١ Binary Search Tree		
٢٨	٠٥/٠٥/٢٠١٥	٦.١ Heap Sort		
٢٩	١٢/٠٥/٢٠١٥	٦.٢ Selection Sort		
٣٠	١٩/٠٥/٢٠١٥	Program applications		
٣١	٢٦/٠٥/٢٠١٥	Program applications		
٣٢	٠٢/٠٦/٢٠١٥	End Term Exam		

INSTRUCTOR Signature:

Dean Signature: