Data Structure Annual Report

A-	Basic Information	
1.	Title and Code	Data Structure/ CS241
2.	Programme(s) on which this course is given	CS, IS, IT and OR
3.	Academic year / Level of programme	2 nd year / 2 nd Semester
4.	Units/Weekly hours Tutorial/Practical Total	6
	Names of lecturers contributing to the delivery Dr. Waiel Shokey Course coordinator: External evaluator: Dr. Waiel Shokey Not Assigned yet	ý
В-	No. of students attending the course: No.	164 % 100
	No. of students completing the course: No.	164 % 100
	Results:	
	Passed: No 96 % 58 Failed	No 68 % 41.4
	Grading of successful students:	
I	Excellent: No [2] Very Goo	od: No 6 % 4
	Good: No 15 % 9 Pass:	No 71 % 43

C- Professional Information

1 – Course Teaching

Topics actually taught	No. of hours	Lecturer
1 Introduction and Overview	6	Dr. Waiel Shokey
 Arrays, Record and Pointers Linear Arrays Control Structures. Sub-algorithms. Linear Arrays in Memory. 	6	Dr. Waiel Shokey
 3. Basic Operations Done on Linear Arrays Traversing Linear Arrays. Inserting and Deleting. Sorting Linear Search Binary Search 	12	Dr. Waiel Shokey
 4. Multidimensional Arrays Two Dimensional (2D) Arrays. Representation 2D Arrays in Memory. Pointer Arrays. Record Structures. Parallel Arrays. 	6	Dr. Waiel Shokey
 5. Stacks and Queues Stacks. Array Representation of Stacks. The Stack Abstract Data Type. Queues and Priority Queues. Array Representation of Priority Queues. The Queue Abstract Data Type. Multiple Stacks and Queues 	12	Dr. Waiel Shokey
Linked Lists Introduction Linked Lists in Memory Basic Operations on Linked Lists Traversing A Linked List	6	Dr. Waiel Shokey
 7. Linked Lists Operation Introduction Searching A Linked List Memory Allocation Insertion into A Linked Lists Deletion from A Linked Lists Header Linked Lists 	12	Dr. Waiel Shokey

8. A Linked Lists Abstract Data Types Introduction. Pointers. Singly Linked Lists. Case Studies. Doubly Linked Lists	6	Dr. Waiel Shokey
9. Mathematical Functions and Trees • Introduction • Performance Analysis • Complexity of Algorithms • Performance Measurement • Binary Trees • Representing Binary Trees in Memory • Traversing Binary Trees • Traversal Algorithms Using Stacks • Path Lengths • General Trees	12	Dr. Waiel Shokey
10 Trees Abstract Data Structure Introduction and Terminology. The Abstract Data Type of Binary Trees. Binary Tree Representations. Binary Tree Operations	6	Dr. Waiel Shokey
Total sum	84	

Topics taught as a percentage of the content specified:

<u>>90 %</u> √	70-90 %	<70%	
2- Teaching and Learn	ing Methods:		
Lectures:		V	
Practical Training/	Laboratory:	$\sqrt{}$	
Seminar/Workshop	:	√	
Class Activity:		√	
Case Study:		<u> </u>	
Other Assignments	/Homework:		

3- Student Assessment:

Method of Assessment	Percentage of total
Written examination	60
Oral examination	10
Practical/laboratory work	10
Other Assignments/class work	20
Total	100 %

Members of Examination Committee: Dr. Waiel Shokey

Role of external evaluator: External evaluator not assigned

yet

4- Facilities and Teaching Materials:

Totally adequate:	
Adequate to some extent:	1
Inadequate:	

5- Administrative Constraints

- Insufficient class rooms and halls.
- Insufficient Assistant staff members.
- Insufficient hand books.

6- Student Evaluation of the course: Response of Course Team

Unavailable scientific background Preparation of introductory course in

object oriented

7- Comments from external Response of Course Team

evaluator(s):

External evaluator not assigned yet. None

8- Course Enhancement:

Progress on actions identified in the previous year's action plan:

No previous years action plan

Role of external evaluator:

External evaluator not assigned yet

9- Action Plan for Academic Year

Actions Required Completion Date Person Responsible

Preparation of introductory Eng. Osama raouf

Preparation of introductory course in object oriented

Course Coordinator: Prof. Nabil Abd-El-Wahid Ismail

Signature:

Date: / /