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| ­­­The Islamic University of Gaza | IUG-Logo | First Semester |
| Faculty of Information Technology | 2021-2022 |
| Department of Computer Since | Instructor: Abdallah Abu Amra |

**Course Syllabus**

**Course Name:** Data Structure and Algorithms – Lab

**Course Number:** CSCI 2109

**Credits:** 1 Hr.

**Course Objectives**

Students will gain knowledge and understanding of structuring data, API and implementation of some of data structures and difference between its in performance and space, and how to choose the right data structure according to nature of system and requirements.

**Course Outline**

1. Review of Object-Oriented
2. Array List
3. Generic
4. Comparable and Comparator
5. Linked List
6. Stack
7. Queue
8. Iterator
9. Recursion
10. Tree
11. Binary Tree
12. Graph

**Course Assessment**

* Assessment in lectures (65%)
* Assignments (35%)