S.No.	Lab Name	Class Name	Block	Faculty Incharge	Lab Technical Staff	Room Number
1	**Data Structure & Algorithm Lab**	II year (IT-A)	E	Ms. Anam Khan	Mr. Abhishek	208A

S.No.	Lab Name	Software	Hardware Configuration	Description
1	**Data Structure & Algorithm Lab**	Windows 10 • Ms Office • Turbo C++ • Java • Python • Prolog	Intel(R) Core(TM) i5-2400 CPU @ 3.10GHz	The objective of Data Structures and Algorithms Lab (DASAL) is to provide practical learning on various data structures and to understand the processing of different algorithm for problem-solving. This lab complements the data structures and computer algorithms courses. Students gain practical knowledge by writing and executing programs in C/C++/JAVA using various data structures and implementing algorithm principles.

Exp. No.	Name of Experiment
1	Write a program to implement addition and multiplication of two 2D arrays.
2	Write a program to transpose a 2D array.
3	Write a program to implement stack using array.
4	Write a program to implement queue using array.
5	Write a program to implement circular queue using array.
6	Write a program to implement stack using linked list.
7	Write a program to implement queue using linked list.
8	Write a program to implement circular queue using linked list.
9	Write a program to implement Linear Search. Write a program to implement Binary Search.
10	Write a program to implement Bubble Sorting.
11	Write a program to implement Selection Sort.
12	Write a program to implement Insertion Sort.
13	Write a program to implement Quick Sort.
14	Write a program to implement Shell Sort.

15	Write a program to implement BFS using linked list.
16	Write a program to implement DFS using linked list.
17	Write a program to implement tree traversals using linked list.
18	Write a program to implement tree traversals using linked list.
1	Write a program to implement Floyd Warshall's algorithm.
2	Write a program to implement Merge sort
3	Write a program to implement Heap sort.