

B.Sc (Computer Science) Syllabus
Rayalaseema University, Kurnool with effect from 2020-2021

DATA STRUCTURES USING C LAB

Semester	Course Code	Course Title	Hours	Credits
II	C2-P	DATA STRUCTURES USING C LAB	30	2

1. Write a program to read 'N' numbers of elements into an array and also perform the following operation on an array
 - a. Add an element at the beginning of an array
 - b. Insert an element at given index of array
 - c. Update an element using a value and index
 - d. Delete an existing element
2. Write a program using stacks to convert a given
 - a. infix expression to prefix
 - b. infix expression to postfix
3. Write Programs to implement the Stack operations using an array
4. Write Programs to implement the Stack operations using Linked List.
5. Write Programs to implement the Queue operations using an array.
6. Write Programs to implement the Queue operations using Linked List.
7. Write a program for arithmetic expression evaluation.
8. Write a program for Binary Search Tree Traversals
9. Write a program to search an item in a given list using Linear Search Algorithm.
10. Write a program to search an item in a given list using Binary Search Algorithm
11. Write a program for implementation of Bubble Sort Algorithm
12. Write a program for implementation of Quick Sort Algorithm
13. Write a program for implementation of Insertion Sort Algorithm
14. Write a program to implement Depth First Search graph traversals algorithm
15. Write a program to implement Breadth First Search graph traversals algorithm