



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)
Aziznagar Gate, C.B. Post, Hyderabad – 500 075

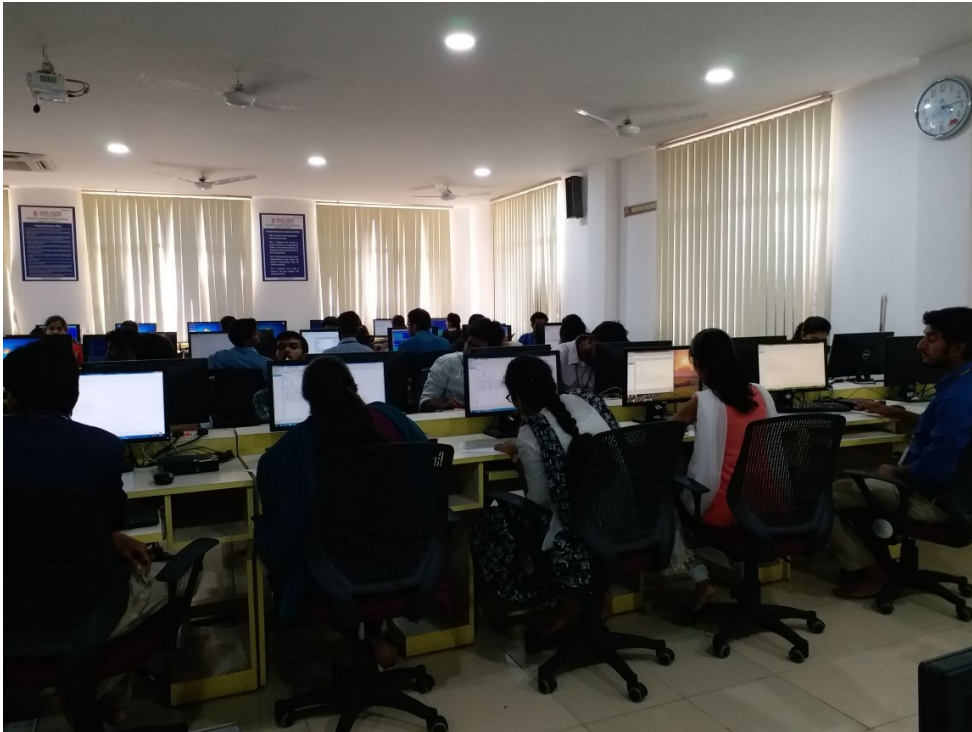
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

II B.Tech I Semester

DATA STRUCTURES LAB (A13585)

Course outcomes: After completing this course the student must demonstrate the knowledge and ability to:

1. Develop the programs on stack and its applications
2. Demonstrate the operations on trees
3. Demonstrate the implementations of various advanced trees
4. Design and implementation of programs on BST and graph traversals
5. Understand the C++ program structure and also basics of C++ programming.



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DATA STRUCTURES LAB (A13585)

LIST OF EXPERIMENTS

Part-A

1. Program to illustrate string built in functions
2. Program to evaluate postfix notations
3. Program to convert infix to postfix notation
4. Program to illustrate tree traversals
 - a) In order b) Pre order c) Post order
5. Program to illustrate insertion, deletion and searching in Binary Search Tree.
6. Program to illustrate Graph traversals
 - a) Breadth First Search
 - b) Depth First Search
7. Program to illustrate Insertion, deletion and Rotation on AVL Trees.

Part-B

1. Program to illustrate Function Overloading to calculate area of a circle, rectangle and square
2. Program to illustrate virtual function
3. Program to illustrate default constructor, parameterized constructor and copy constructors
4. Program to illustrate single Inheritance, multiple inheritance, multilevel inheritance, hybrid inheritance
5. Program to illustrate run time polymorphism, compile time polymorphism
6. Program to illustrate Operator Overloading
 - a)Unary Operator b) Binary Operator
7. Program to illustrate Exception Handling Mechanisms using try, catch, throw keywords
8. Program to illustrate formatted and unformatted I/O streams

S.No	Name Of the equipment	Configuration	QTY
1	Desktop	Zenith Intel Pentium Dual Core E2180, 1GB RAM, 80GB HDD,19" LED Monitor.	44
		HP Intel Dual Core E2200@2.20GHz With 1GBRAM and HDD 160GB	10
		WIPRO Intel Pentium 4@3.0GHZ With 1GBRAM and HDD 80GB	7

2	LCD PROJECTOR	Panasonic LX-270 DLP	1
3	D-LINK	24 ports	1
4	Data Structure Software	TURBO C++ Dev C++	

LIST of EQUIEMENT