



# 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

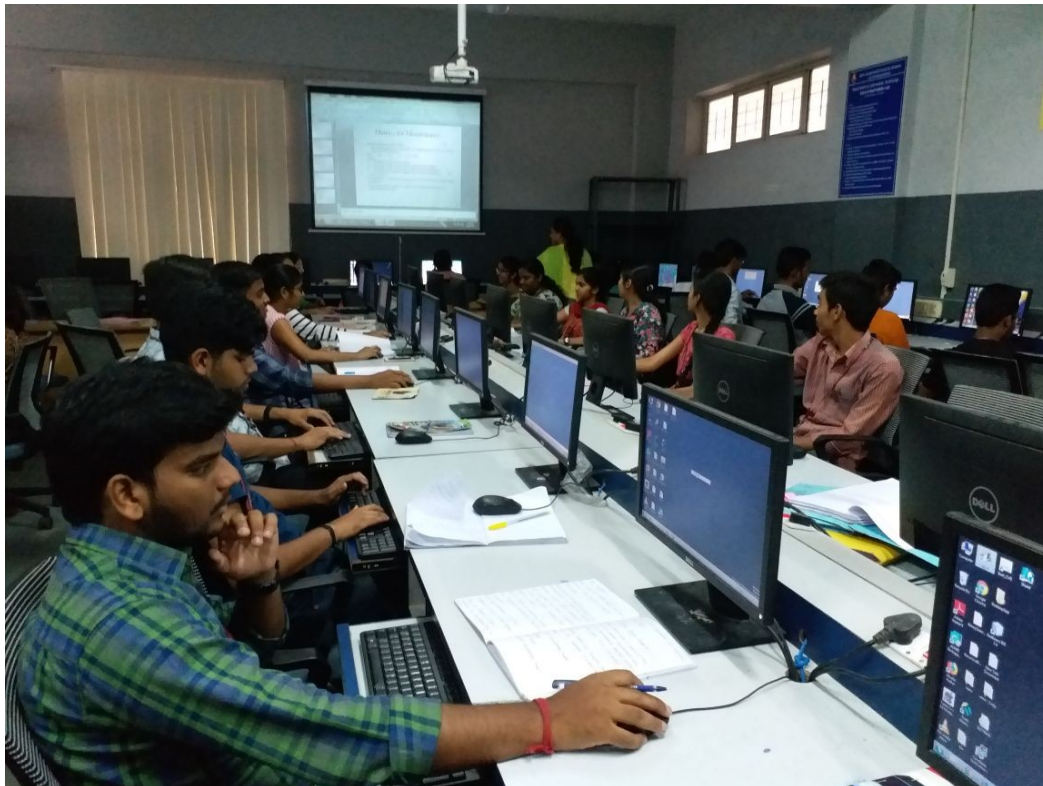
## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

II B.Tech I Semester

### JAVA PROGRAMMING LAB (A14586)

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

1. Apply basic Java constructs and OOP to solve mathematical problems.
2. Apply Inheritance in Java programs to implement File input/output.
3. Analyze Exception Handling code and Multithreading concepts in advanced Java programs.
4. Design different GUI applications using GUI layouts.
5. Apply Applet development and Database connectivity to build GUI applications





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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

II B.Tech II Semester

### JAVA PROGRAMMING LAB (A14586)

#### LIST OF EXPERIMENTS

##### Week 1:-

- 1) Write a program to find total, average of given two numbers by using function with default arguments, static data members and this keyword?
- 2) Write a program to illustrate class and objects (Banking operations)

##### Week 2:-

- 3) Write a program to illustrate constructors? (Inventory of Books)
- 4) Write a program to create a class complex with necessary operator overloading and type conversion such as integer to complex, complex to double.

##### Week 3:-

- 5) Write a program that randomly generates complex numbers and write two numbers per line in a file along with an operator(+,-,\*,/). The numbers are written to file in the format (a+ib)
- 6) Write a program to read one line at a time, perform the corresponding operation on two complex numbers read, write the result to another file (one per line)

##### Week 4:-

- 7) Write a program to illustrate inheritance (Student Evaluation)
- 8) Write a java program to handle the situation of exception handling.

##### Week 5:-

- 9) Write a java program to demonstrate the concept of polymorphism.
- 10) Write a java program to illustrate Method Overriding?

##### Week 6:-

- 11) Write a java program to illustrate Method overloading of assignment operator?
- 12) Write a program to illustrate Array Manipulation?

##### Week 7:-

- 13) Write a program to illustrate Synchronization?
- 14) Write a program to StringTokenizer?

##### Week 8:-

- 15) Write a program to implement the concept of User defined Exceptions.
- 16) Write a program to illustrate the use of creation of packages.

##### Week 9:-

- 17) Write a program to illustrate Multithreading and Multitasking?
- 18) Write a program to illustrate thread priorities.

##### Week 10:-

- 19) Write a program to illustrate applet concept.

##### Week 11:-

20) Write a program to illustrate Event Handling (keyboard, Mouse events)

**Week 12:-**

21) Write a program to develop a calculator application using AWT.

**Week 13:-**

22) Write a program to illustrate JDBC.

### LIST of EQUIEMENT

<b>S.N</b>	<b>Name Of the equipment</b>	<b>Configuration</b>	<b>QTY</b>
1	Desktop	ACER-Intel Pentium <a href="#">CPUG2020@2.90GHz,@ 2 GB</a> RAM,500GB HDD,Acer 19'LCD Monitor	68
2	LCD PROJECTOR	Panasonic	1
3	D-LINK	24 ports	3
4	Java Programming	jdk1.7.0_21, Eclipse/ Netbeans, MySql	