

Prasad.V. Potluri Siddhartha Institute of Technology, Kanuru, Vijayawada

Programming with JAVA Lab

Course Code	19IT3452	Year	II	Semester	I
Course Category	PC	Branch	IT	Course Type	Theory
Credits	1.5	L-T-P	0-0-3	Prerequisites	C Language
Continuous Internal Evaluation :	25	Semester End Evaluation:	50	Total Marks:	75

Course Outcomes	
Upon Successful completion of course, the student will be able to	
CO1	Implement the programs by using basics and fundamental concepts of JAVA. (Apply)
CO2	Analyze the given Java program to identify bugs and write correct code. (Analyze)
CO3	Use APIs (Application Programmer Interfaces) to develop applications in Java.

Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (H:High, M: Medium, L:Low)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	2					1				2	2
CO2	2	2	2	2					1				2	2
CO3	2	2	2	2					1				2	2

Exercise No		Mapped CO
1	a. Java Program to print largest of three numbers b. Java program to calculate sum of all the numbers divisible by 3 from 1 to n. Print the sum. c. Write a Java program to calculate the sum of first "n" even integer numbers and "n" odd integer numbers excluding 0; d. Write a Java program to read the size of an array from keyboard. You have to initialize the integer array and insert the elements into it. You have to find the minimum number in that array and print the same. e. Write a Java program to find the average of all odd numbers present in the array and print the same.	CO1-CO3
2	Implement the programs by using the concepts of a. returning value from a method b. constructors c. overloading methods d. overloading constructors e. passing objects as a parameters.	CO1-CO3
3	Develop applications using the concepts of	CO1-CO3

	<ul style="list-style-type: none"> a. String class and its methods b. String Buffer and its methods c. StringTokenizer and its methods 	
4	Implement the programs by using the concepts of <ul style="list-style-type: none"> a. Method overriding b. dynamic method dispatch c. Abstract class d. Using final in inheritance 	CO1-CO3
5	Implement the programs by using the concepts of <ul style="list-style-type: none"> a. Implementing interfaces b. Nested interfaces c. Interface references d. Extending interfaces 	CO1-CO3
6	<ul style="list-style-type: none"> A. Create a user defined package and demonstrate different ways of importing packages. B. Implement the programs by using the concepts of <ul style="list-style-type: none"> a. multiple catch clauses b. finally c. Creating user defined exceptions 	CO1-CO3
7	Implement the programs using <ul style="list-style-type: none"> a. Creating threads (two –ways) b. Creation of multiple threads c. Thread synchronization 	CO1-CO3
8	Develop applications that demonstrate by using <ul style="list-style-type: none"> a. Key board event handling b. Mouse event handling 	CO1-CO3
9	Develop applications by using AWT controls <ul style="list-style-type: none"> a. Buttons b. TextField and TextArea c. GridLayoutManager 	CO1-CO3
10	Develop applications by using Swing componets <ul style="list-style-type: none"> a. JLabel b. JTextField c. JButton d. JComboBox. 	CO1-CO3

Learning Recourses

Text Books

The Java Complete Reference, Herbert Scheldt, 10/e, TMH Publications, 2018.

References

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| <ol style="list-style-type: none"> 1. E. Balagurusamy, Programming with JAVA, 2/e, TMH Publications, 2014. 2. Core Java: An Integrated Approach, New: Includes All Versions up-to Java 8, by R. Nageswara Rao, Dream-Tech Publishers. 3. Kathy Sierra, Head First Java, 2/e, Shroff Publishers, 2012. |
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