

JAVA PROGRAMMING

L	T	P	M	C
3	0	0	100	3
			8	

UNIT I

A look at procedure oriented programming – Object oriented programming paradigm – Basic concepts of object oriented programming – Benefits of OOP –What is java? - Simple java program- Java vs. C++-Tokens – Keywords – Identifiers and constants – Data types – Type Conversions and Casting - Arrays-Operators - Control statements in java. Class fundamentals – Declaring Objects- Assigning Object Reference Variables – introducing methods- constructors – this keyword- garbage Collection – finalize () method – overloading methods- objects as parameters- returning objects- access control – static- final keyword- Nested classes – Inner classes- classes with command line arguments

UNIT II

8

Basics- Super keyword- Multilevel Hierarchy- Invoking Constructors- Method overriding Abstract Classes – Using Final with Inheritance- Packages- Access Protection – Importing a Packages- Interfaces-Special String Operations – Character Extraction – String Comparison – Modifying a String –String Buffer.

UNIT III

9

Exception Types – Uncaught Exceptions – Using Try Catch – Multiple Catch – Nested Try – throw- throws- finally – Built in Exceptions- Using Exceptions- Thread Model – Character Streams- Stream I/O- Serialization- Files

UNIT IV

10

Applet Architecture – Skeleton- Simple Applet Display Methods- HTML APPLET tag – Passing Parameters to the Applet- AudioClip and AppletStub Interface - Delegation Event Model – Event Classes. Collection Interfaces – Collection Classes – Using Iterator – Maps- Comparators- Legacy Classes and Interfaces

UNIT V

10

String Tokenizer – BitSet – Calendar – Gregorian – TimeZone – Locale – Random-Currency- Case studies – Real time application development- Debugging the application – Testing the application.

TOTAL = 45

Text Book:

1. D.Norton and H. Schildt, “Java 2 the complete Reference Fifth edition”, TMH, 2002 (Re print 2009)

References:

1. By Kathy Sierra, Bert Bates, "Head First Java", Second Edition, O'Reilly Media, 2005
2. M.Deitel and Deitel, "Java How To Program" 7/e, Prentice Hall Publications.
3. Paul Deitel , Harvey M Deitel, Java for Programmers, Pearson, 2010.
4. Eliote Rusty Harold, "Java Network Programming" Third Edition, O'Reilly Publishers.
5. "Java Cook Book", Second Edition O'Reily Media 2002.