

Unit	Lectures	Practical's	Workshops	Demo	Field Visits	Total	Remarks
<b>UNIT-I</b> History and design features of JAVA, how java works, basics of JAVA, Applications and Applets, using the tools in JDK, javadoc, java, jdb etc. Applet Programming - Creating and executing Java applets, inserting applets in a web page, Java security. JAVA Language- Keywords, Constants, Variables, and Data Types. Operators and Expressions, Decision making, Branching and Looping, Labeled Loops Statement, Jump statements: Break, Continue, and Return. Arrays and Strings- Creating an Arrays, one and two Dimension Arrays, String Array, String and String Buffer Classes.	8	6				14	
<b>UNIT-II</b> Classes, Objects and Methods Defining a class, adding variables and Methods, creating objects constructors, Wrapper Classes. Inheritance, Basics types, using super, multi level hierarchy, abstract and final classes, object class, packages and interfaces, Access protection, Extending interfaces, packages.	8	6				14	
<b>UNIT-III</b> Exception Handling, Fundamentals exception types, uncaught exceptions, throws, throw, try -catch, final, built in exceptions, creating your own exceptions.  Multithreading Fundamentals, Java Thread model : priorities, synchronization, messaging, thread class, Runnable interface, Interthread communication, suspending, resuming and stopping threads.	8	6				14	
<b>UNIT-IV</b> Input/Output -Basics, Streams, Byte and Character streams, predefined streams, reading and writing from console and files .Using standard Java Packages (lang.util,io)  Networking -Basics, networking classes and interfaces, using java.net package, doing TCP/IP and Datagram programming.	8	6				14	
<b>UNIT-V</b> AWT Classes, Event Handling and Swing classes, AWT Programming, Working with windows, Graphics and Text, using AWT controls, Layout managers and menus, Handling image, animation, sound and video.  Event Handling-Different mechanism, the Delegation Event Model, Event Classes, Event Listener interfaces, Adapter and Inner Classes. Java Swing -Japplet, Icons and Labels, Text fields, Buttons, Combo Boxes, Tabbed and Scroll Panes, Trees, Tables.	8	6				14	
<b>TEXT &amp; REFERENCE BOOKS :</b> <ul style="list-style-type: none"> <li>• JAVA THE COMPLETE REFERENCE BY PATRICK NAUGHTON AND HERBERT SCHILDT. TMH PUBLICATION ISBN 0-07-463769-X</li> <li>• PROGRAMMING WITH JAVA BY E. BALAGURUSWAMY TMH PUBLICATIONS ISBN 0-07-463542-5</li> <li>• USING JAVA 1.2 BY JOSEPH WEBER. PHI – ISBN-81-203-1558-8</li> </ul>							