

COURSE CODE	COURSE TITLE	L	T	P	C
1154IT201	JAVA PROGRAMMING	1	0	4	3

UNIT – I Basics of Java

History and Features of Java - Difference between JDK,JRE and JVM – Basic Language Elements - Lexical Tokens, Identifiers, Keywords, Literals, Comments ,Primitive Datatypes, Operators Assignments, I/O Operations

UNIT – II Classes and Objects

Advantage of OOPs - Object and Class - Method Overloading – Keywords – this, super, final, strictfp – call by value – call by reference - Nested classes - Constructor – Arrays

UNIT – III Inheritance

Benefits - Types – Inheriting Data Members and Methods - Method Overriding – Polymorphism – Abstract classes and methods – Implementing Interfaces

UNIT – IV Multithreading

Multithreading - Life Cycle of a Thread - Creating Thread - Thread Scheduler - Sleeping a thread - Joining a thread - Thread Priority - Thread Pooling - Thread Group - Performing multiple task by multiple thread - Runnable class

UNIT – V Packages and Exception handling

Packages - Organizing Classes and Interfaces in Packages - Package as Access Protection - Defining Package - Naming Convention For Packages. Exceptions – Types - Control Flow In Exceptions, JVM reaction to Exceptions – try – catch - - finally – throw - throws in Exception Handling - In-built and User Defined Exceptions

A. Learning Resources

TEXT BOOK

1. Herbert Schildt, “Java – The Complete Reference”, Ninth edition, Oracle press.

REFERENCES

1. Simon Kendal, “Object oriented Programming using Java”, First Edition, Pearson Education
2. E. Balagurusamy, “Programming with Java – A Primer”, Third edition, McGraw-Hill companies