Unit	Description	Weightage* (%)
1.	Introduction to Java - The Java programming language: history, evolution, features - Introduction to the Java programming environment, JDK, JRE - Introduction to the IDE - Data types and wrapper classes, operators - Control structures - String handling - Basic Input-output	25
2.	Introduction to Object-oriented Programming Basic concepts of object-oriented programming Classes, instances, methods Static and non-static members Packages Inheritance and polymorphism, method overriding Pinal and abstract classes, abstract methods Interfaces Generics, enumeration Inner classes and anonymous classes Class loaders, class path	25
4.	Developing Graphical Programs and Database Access - An introduction to graphics in Java - Brief introduction to AWT - The Swing library - Writing graphical programs using Swing - Using various Swing components - Managing layout using Swing - Event handling using Swing - Introduction to JDBC - Different types of JDBC drivers - Programming database applications using JDBC	25

1.	Introduction	25
	 Software – meaning and applications Software Engineering – meaning, goal, challenges and approach Software Process Software Development Process Models – waterfall, prototyping, iterative, time boxing and spiral Introduction to Agile Computing Agile Software Development Approaches (Scrum, eXtreme Programming, Feature Driven Development, Dynamic Driven Development) Collaborative User Story Creation, Retrospectives, Continuous Integration, Release and Iteration Planning 	
2.	 Software Requirement Analysis and Project Management Software Development Life Cycle (SDLC) Software Requirements Specification (SRS) – Need, Process, Problem Analysis, Requirement Specifications, structure and components, Functional Specifications using Use Cases Software Project Management : Project Planning, various issues addressed in Project Planning, Effort Estimation Work Breakdown Structure (WBS) 	25

	Client-side Web Technologies - I	2:
	- Introduction to HTTP and HTML5	
	- URL format	
	- HTML5 document structure	
	- Headers, body, declarations	
	- Elements, element ID, name, attributes, events	
	- HTML5 media	
	- Forms	
	- HTTP Verbs	
	- Introduction to the DOM	
	- Introduction to CSS3	
	- CSS3 Syntax	
	- Different properties, values and units	
	- Specifying colors	
2.	Client-side Web Technologies - II	25
	- CSS3 selectors, classes	
	- CSS3 precedence rules	
	- Introduction to media query	
	- Introduction to JavaScript	
	- JavaScript syntax	
	- Variables: declaration, data type	
	- Strings, numbers, arrays	
	- Operators	
	- Functions	
	- Variable scope	

3.	Server-side Web Development Using PHP – I - Introduction to server-side scripting - Introduction to PHP - Data types, variables, constants, operators - Flow Control and looping - Strings, arrays, functions - Regular expressions, server-side input validation - Superglobals - Maintaining state: sessions, cookies, query parameters, hidden	25
4.	 Maintaining state: sessions, cookies, query parameters, hidden fields Server Side Web Development Using PHP – II Introduction to MySQL 	25
	 Introduction to MySQL Database Connectivity in PHP Introduction to object-oriented programming with PHP 	

1.	 The .NET Technology Introduction to .NET Framework Architecture of .NET framework – BCL (Base Class Library), CLR (Common Language Runtime), etc. .NET Languages – introduction, Types of applications supported by .NET Technology Managed code, compilation to intermediate language, Just-In-Time compilation, garbage collection, assemblies and the GAC 	25
2.	 Language basics C#.NET – Introduction and features General structure of C#.NET program C#.NET – basic data types, variables, constants, type conversion - boxing and unboxing C#.NET – statements (conditional and looping) Console Applications, Windows Applications - Windows Forms and Life Cycle User interface controls - Basic Controls, Dialog controls, Menu control 	25

Unit	Description	Weightage*
1.	Introduction to Cybercrime - Cybercrime: Definition And Origins Of The World - Cybercrime And Information Security - Who Are Cybercriminals? - Classifications Of Cybercrimes - Cybercrime: The Legal Perspectives - Cybercrimes: An Indian Perspectives - Cybercrime And The Indian ITA-2000 - Cyber Offenses: How Criminals Plan The Attacks - Social Engineering - Cyberstalking - Botnets	25
2.	Tools and Methods Used in Cybercrime - Password Cracking - Key Loggers And Spywares - Virus And Worms - Trojan Horses And Backdoors - DoS And DDoS Attacks - SQL Injection - Buffer Overflow - Phishing - Identity Theft - Networking Commands	25