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| **S. No.** | **Topics to be covered** | **Mode of Delivery** | **Periods Required** | **Books followed** | **Scheduled Date** |
| **UNIT I**  **Introduction to Java, Data types, Arrays and Variables, Operators, Control Statements, Introducing Classes** | | | | | |
| **1** | Introduction to JAVA – Object Oriented Programming | ICT | 1 | T1, T2, R1 | 28-08-2023 |
| **2** | History and Evolution of java, | ICT | 1 | T1, T2, R1 | 28-08-2023 |
| **3** | Java’s magic: The byte code, Java Buzzwords, OOP Concepts, Java Keywords, | ICT | 1 | T1, T2, R1 | 29-08-2023 |
| **4** | The Java class Libraries | ICT | 2 | T1, T2, R1 | 30-08-2023 |
| **5** | Java Data Types, Variables and Constants, | ICT | 1 | T1, T2, R1 | 31-08-2023 |
| **6** | Naming Conventions, | ICT | 1 | T1, T2, R1 | 07-09-2023 |
| **7** | Type conversion and casting, Arrays | ICT | 1 | T1, T2, R1 | 12-09-2023 |
| **8** | Operators & Expressions, Java Control Statements, Classes and Objects | ICT | 1 | T1, T2, R1 | 12-09-2023 |
| **9** | Introducing Methods, Constructors, this Keyword, Garbage Collection. | ICT | 1 | T1, T2, R1 | 13-09-2023 |
| 10 | Overloading Methods and Constructors | ICT | 1 | T1, T2, R1 | 14-09-2023 |
| 11 | Argument passing, Recursion, Introducing Access Control, understanding static, Command Line Arguments, Exploring the String class. | ICT | 2 | T1, T2, R1 | 19-09-2023 |
| **UNIT II**  **Inheritance, Exception Handling** | | | | | |
| **1** | Inheritance: Basics, super keyword, method overriding | ICT | 2 | T1, T2, R1 | 20-09-2023 |
| **2** | dynamic method dispatch, | ICT | 1 | T1, T2, R1 | 21-09-2023 |
| **3** | Abstract classes, using final with inheritance | ICT | 1 | T1, T2, R1 | 26-09-2023 |
| **4** | Introducing Nested and Inner classes, Exception Handling: Fundamentals | ICT | 2 | T1, T2, R1 | 27-09-2023 |
| **5** | Exception Types, Using try and catch | ICT | 1 | T1, T2, R1 | 28-10-2022 |
| **6** | Multiple catch clauses | ICT | 1 | T1, T2, R1 | 2-10-2023 |
| **7** | Nested try statements, throw, throws | ICT | 1 | T1, T2, R1 | 2-10-2023 |
| **8** | finally, Java Built-in Exceptions | ICT | 1 | T1, T2, R1 | 3-10-2023 |
| **9** | Creating user- defined exceptions | ICT | 1 | T1, T2, R1 | 4-10-2023 |
| **UNIT III**  **Packages, Interfaces and Multithreading** | | | | | |
| **1** | Packages: Basics, Access protection, Importing Packages | ICT | 2 | T1, T2, R1 | 11-10-2023 |
| **2** | Creating and Importing User-defined Packages | ICT | 1 | T1, T2, R1 | 16-10-2023 |
| **3** | Interfaces: Declaring, Implementing and Extending Interfaces, using static methods in an Interface | ICT | 1 | T1, T2, R1 | 16-10-2023 |
| **4** | using final keyword in interfaces, Multithreaded Programming: Multithreading in Java | ICT | 1 | T1, T2, R1 | 17-10-2023 |
| **5** | The Java Thread Model | ICT | 1 | T1, T2, R1 | 18-10-2023 |
| **6** | Life Cycle of a Thread, the main thread, Creating Thread | ICT | 1 | T1, T2, R1 | 30-10-2023 |
| **7** | Creating Multiple Threads | ICT | 1 | T1, T2, R1 | 30-10-2023 |
| **8** | Thread Priorities, Synchronization, Inter Thread Communication, Suspending | ICT | 2 | T1, T2, R1 | 1-11-2023 |
| **9** | resuming and stopping threads | ICT | 1 | T1, T2, R1 | 2-11-2023 |
| **10** | Obtaining a thread state, the finalize () method | ICT | 1 | T1, T2, R1 | 7-11-2023 |
| **UNIT IV**  **Collections Framework & Introduction to AWT** | | | | | |
| **1** | Collections Framework: Overview & Introduction to AWT, Collection Interfaces | ICT | 2 | T1, T2, R1 | 8-11-2023 |
| **2** | Collection Classes | ICT | 2 | T1, T2, R1 | 9-11-2023 |
| **3** | Working with Maps, Comparators | ICT | 1 | T1, T2, R1 | 14-11-2023 |
| **4** | Introduction to AWT: Graphics and Text AWT Classes, Windows fundamentals | ICT | 1 | T1, T2, R1 | 14-11-2023 |
| **5** | frame windows | ICT | 2 | T1, T2, R1 | 15-11-2023 |
| **6** | creating and displaying information within a window Graphics, Color, Fonts | ICT | 2 | T1, T2, R1 | 16-11-2023 |
| **7** | Managing text output using Font Metrics | ICT | 1 | T1, T2, R1 | 21-11-2023 |
| **UNIT V**  **Introduction to AWT, Event Handling, Swings** | | | | | |
| **1** | Event Handling in Java: The Delegation Event Model | ICT | 1 | T1, T2, R1 | 22-11-2023 |
| **2** | Event Classes and Event Listener Interfaces | ICT | 1 | T1, T2, R1 | 23-11-2023 |
| **3** | AWT Controls, Layout Managers, and Menus: AWT Control Fundamentals, Labels, Buttons, Check Boxes | ICT | 1 | T1, T2, R1 | 28-11-2023 |
| **4** | Checkbox Groups, Choice Controls, Lists, Scroll Bars | ICT | 1 | T1, T2, R1 | 28-11-2023 |
| **5** | TextField and TextArea | ICT | 1 | T1, T2, R1 | 29-11-2023 |
| **6** | Layout Managers, Menu Bars and Menus | ICT | 1 | T1, T2, R1 | 05-01-2024 |
| **7** | Dialog Boxes, File Dialog | ICT | 1 | T1, T2, R1 | 06-01-2024 |
| **8** | Swings: Swing Features, MVC Connection | ICT | 1 | T1, T2, R1 | 11-01-2024 |
| **9** | Components and Containers | ICT | 1 | T1, T2, R1 | 12-01-2024 |
| **10** | JLabel, ImageIcon, JTextField | ICT | 1 | T1, T2, R1 | 12-01-2024 |
| **11** | Swing Buttons, Check Boxes, Radio Buttons, JTabbedPane | ICT | 1 | T1, T2, R1 | 18-01-2024 |
| **12** | JScrollPane, JList | ICT | 1 | T1, T2, R1 | 18-01-2024 |
| **13** | JComboBox | ICT | 1 | T1, T2, R1 | 19-01-2024 |
| **14** | JTree, and JTable | ICT | 1 | T1, T2, R1 | 20-01-2024 |